

FIRE COMMISSIONER'S STATISTICAL REPORT 1982



**LABOUR
GENERAL SAFETY SERVICES DIVISION
FIRE PREVENTION BRANCH**

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INTRODUCTION

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63RD STATISTICAL REPORT OF THE FIRE COMMISSIONER

One of the major goals of the Fire Prevention Branch is to reduce the number of deaths caused by fires. Statistics in this report indicate the following about deaths which occurred in Alberta in 1982:

- 84 people died directly as a consequence of fire or in incidents involving fire;
- where the condition of the casualty is known, most often the victim is asleep at the time of the fire;
- 70% of the deaths occurred in residential properties (although only 30% of all fires occurred in this property classification);
- improper disposal of smokers' material was the leading cause of fatal fires;
- 89% of all 1982 residential fire victims did not receive notification of the fire from a smoke alarm (either no smoke alarm was present or it did not operate, usually due to a disconnected power source).

Some of this information suggests that some victims may be either careless, ignorant or both. This knowledge is not new. In an article in the Boston Sunday Herald in 1910 Gorham Dana wrote:

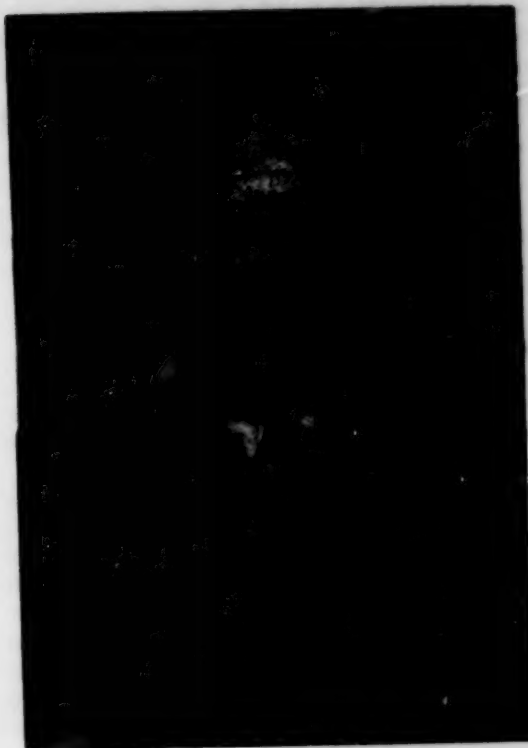
"Fires do not occur without a cause, although sometimes the cause is difficult to determine. Practically every fire is traceable directly or indirectly to somebody's carelessness or ignorance. Carelessness is inexcusable. Ignorance can be corrected by education."

Even in the early part of this century it was recognized that education was very much needed to combat fires and their related deaths. However it was not until the 1970s that more effort was directed at the education process. It was learned that effective fire safety education requires repetition and reinforcement. In addition, there was a change from negative messages to a new fire safety education philosophy that promoted the idea of telling people what to do about fire rather than what not to do. For example, the command "Don't let clothing catch fire" changed to the more appropriate statement "If clothing catches fire, stop, drop and roll". Efforts were increased to not only make the public aware of fire problems but also to teach the appropriate actions to take in case a fire occurred. There was a shift away from emotional scare tactics. In the past, Fire Prevention Week was the only time fire departments promoted fire safety education. However, over time many recognized that fire safety education must be extended throughout the year.

With this recognition came the increasing importance of the fire safety or fire prevention educator. In some fire departments, both volunteer and paid, the official position of fire safety educator has been recognized. In 1977, the National Fire Protection Association (NFPA) developed a standard for professional qualifications for the fire prevention education officer.

Since then manuals devoted to assisting the educator have been developed and organizations formed to promote an exchange of ideas between educators. In 1979, the International Society of Fire Service Instructors inaugurated a Firesafety Educator's Section. In the same year, the International Fire Service Training Association published a manual titled *Public Fire Education* aimed at assisting the educator in designing and implementing fire safety education programs. In 1980, the Federal Emergency Management Agency published *Public Fire Education Planning*, a five step process. Also in 1980, NFPA initiated an Education Section. In 1983, NFPA published the *Firesafety Educator's Handbook*, a comprehensive guide to planning, designing, and implementing firesafety programs.

As time goes on, fire safety education and fire safety educators are playing a more important role in society



W.D. MacKay
Fire Commissioner

because the value of both is being recognized. It's clear that education contributes at least in part to reducing the number of fires, fire deaths, and property losses due to fire.

Given some of the information that we have about fire deaths, there are two principal messages fire service members should always strive to communicate:

For the sake of those around you, put your cigarette out before going to bed. Install smoke alarms in your home. Your life could be saved by these two actions. Do it for those who love you.

For those of us who are involved in the fire safety field, it is important to remember that we're responsible on an ongoing basis for promoting fire education wherever and whenever possible. By promoting the above messages, and many others like them, we can assist in further reducing the number of fire deaths in our communities.

FIRE PREVENTION BRANCH ACTIVITIES

Through its various programs and services, the Fire Prevention Branch of Alberta Labour strives to reduce the number of deaths caused by fire, the number of fires in Alberta communities, and property losses due to fire.

One of the activities of branch staff is the regular inspection of buildings and facilities subject to provincial fire regulations. Inspections are undertaken to ensure that buildings and facilities meet acceptable standards of fire safety. In some cases, inspections are undertaken in response to complaints. Although the branch does not assume responsibility for inspections in communities that have their own inspection agencies in the form of municipal fire departments, branch staff are involved in various other programs that affect fire safety in these communities either directly or indirectly. In addition, branch staff provide special assistance to local fire departments whenever necessary.

Branch staff conduct in-depth investigations of fires throughout the province and assist police and fire departments engaged in fire investigation activities. A high priority is given to the investigation of fire deaths, arson fires and fires involving large property loss.

Benefits of the branch's training services extend to fire safety personnel throughout the province. The branch develops and implements training and information programs for members of municipal and industrial fire departments in all Alberta communities. In addition to providing technical assistance on fire prevention and protection to municipalities, the branch conducts fire safety education programs for the general public and collects and disseminates statistical information on fires.

During the 1982-83 fiscal year the Fire Prevention Act was substantially revised. The revised Fire Prevention Act, Chapter F-10.1 1982, is similar in concept to the previous act. However, investigation responsibilities are more clearly delineated in the new act. In addition, some provisions were changed to encompass the scope of expanded branch activities and appeal and enforcement provisions were improved. The Lightning Rod Act was repealed. The requirements of that act have been incorporated into the Fire Prevention Act.

Programs aimed at fire prevention constitute a major area of activity for branch staff. To this end, the branch provides various services including public education programs dealing with the hazards of fire, sources of ignition and methods of preparing for fire. Inspection services are available from staff at regional offices of the branch throughout Alberta. Special emphasis is placed on the inspection of assembly, institutional and residential buildings in smaller centres where the fire prevention activities of the fire departments are minimal.

Due in part to a policy of economic restraint that resulted in staff reductions and travel restrictions, the number of inspections conducted by the branch was reduced by 29% compared to the previous year. Presentations made to groups on fire prevention subjects were also down by 17%. More detailed information is provided in Section A of the table on page 6.

A major undertaking during the year was the development of an evacuation procedures manual for medical care facilities. The manual is designed to improve efficiency during patient evacuations and was used in several institutions during the year on a trial basis. Comments received were positive and indicated that the manual will be helpful in training staff in a wide variety of institutions in Alberta. Plans are underway to develop similar manuals for other occupancies including theatres.

The reduction in fire prevention activities by the branch was offset to some extent by the formation of four additional regional fire prevention organizations. This brings the province-wide total to 15, encompassing about one-third of the fire departments in Alberta. Members meet regularly with Fire Prevention Branch staff to discuss concerns such as mutual aid, fire investigation, inspection programs and fire prevention programs. The development of these organizations is part of a continuing effort on the part of the branch to encourage fire departments to increase their fire prevention activities.

Each year a number of fires undergo detailed investigation. Section B of the table on page 6 shows the number of investigations conducted. These types of investigation are usually carried out when:

1. a death occurs as a result of the fire;
2. arson is suspected;
3. the cause of the fire is not known; or
4. a major loss occurs.

During 1982/83, 1,499 in-depth investigations were carried out, which is a slight increase (1.5%) over the previous year. Fire Prevention Branch investigators were called to assist police and fire departments in 420 (28%) of these investigations. The demand for assistance from the branch for in-depth investigations has increased almost 25% per year for the past two years.

During the year branch investigators were involved in a study carried out by the International Association of Arson Investigators to determine the burning characteristics of newer model cars. The results of these tests provided new insight into the burning characteristics of present day automobiles and will be a valuable aid to fire investigators, crime laboratory technicians, insurance adjusters and others concerned with automobiles and fire.

In order to make the most effective use of the Alberta Fire Training School (AFTS) which has specialized equipment and facilities, new emphasis is being placed on the utilization of AFTS firefighter training courses by municipal fire departments. The course material and the necessary training aids are provided by AFTS. The training course is conducted by the instruction staff of the fire department. Following completion of the course, examinations are conducted by AFTS personnel and certificates are awarded to successful candidates. Part I of the firefighters series has been presented successfully in this manner. An additional course titled "Fire Prevention for the Firefighter" was introduced during the year. Additional courses will be made available over the next few years. This extension program has allowed staff at AFTS to concentrate on those courses which require the more specialized facilities and equipment available at AFTS. This type of extension program has allowed the variety of training programs offered at AFTS to increase significantly and provides for more efficient use of the school. The number of persons participating in the extension program has increased 70% in the past two years. Further development of the program will allow additional courses to be presented by municipal fire departments throughout Alberta.

The branch also presented three special one-day seminars to a total audience of 111. Subjects covered at the seminars were breathing apparatus, fire extinguishers and water supplies for firefighting. Section C of the table on page 6 provides additional information on branch training programs.

Comparative Statistical Summary
for the three years ending March 31, 1981, 1982 and 1983

	1980-81 No.	1981-82 No.	1982-83 No.
A. Fire Prevention			
Building fire inspections conducted	3,001	3,123	2,204
— recommendations to correct hazards issued	8,399	9,892	6,401
— orders to remedy conditions issued	9	1	4
Plans examined	474	749	588
Meetings and lectures conducted	1,010	1,546	1,276
— attendance	22,758	34,831	25,831
B. Fire Investigation			
Investigations conducted by Branch	279	339	420
Investigations by other agencies	1,100	1,137	1,079
Total	1,379	1,476	1,499
Causes of Fires Investigated			
— arson	943	1,076	528
— accidental or unknown	428	400	971
— under investigation	8	—	—
Total	1,379	1,476	1,499
C. Fire Service Personnel Training (attendance)			
Alberta Fire Training School (A.F.T.S.)			
Part I Firefighter	182	241	132
Part II Firefighter	113	111	143
Part III Firefighter	101	73	88
Part IV Firefighter	—	20	56
Pump Operator "A"	28	37	38
Pump Operator "B"	15	21	31
Fire Service Instructor	42	35	19
Fire Prevention for Firefighters	34	22	0
Fire Officer C1, Building Construction	33	53	0
Fire Officer C2, Leadership	—	22	51
Fire Officer C3, Pre-fire Planning	—	—	20*
Fire Officer C4, Fire Suppression and Safety	—	—	20*
Fire Officer C7, Fire Investigation	148	91	45
Fire Prevention Officer D1, Water Supply	—	—	11*
Total Municipal Fire Department Personnel Attending A.F.T.S.	696	726	654
Extension Courses — Municipal Presentation	—	80	286
Part I Firefighter	—	—	50
Fire Prevention for the Firefighter	—	—	—
Total	0	80	336
Total Municipal Fire Department Personnel Attending A.F.T.S. Sponsored Courses	696	806	990
Industrial Programs	—	—	61*
Part I Industrial Firefighter	—	65	64
Part IA Industrial Firefighter	—	—	55*
Part II Industrial Firefighter	—	—	12*
Aircraft Crash/Fire Response — Dry Chemical	—	—	—
Total Industrial Fire Department Personnel Attending A.F.T.S. Sponsored Courses	—	65	192
Total Attendance — A.F.T.S. Sponsored Courses	696	871	1,182
One-day Seminars	40	146	111

* These courses were offered for the first time in 1982/83.

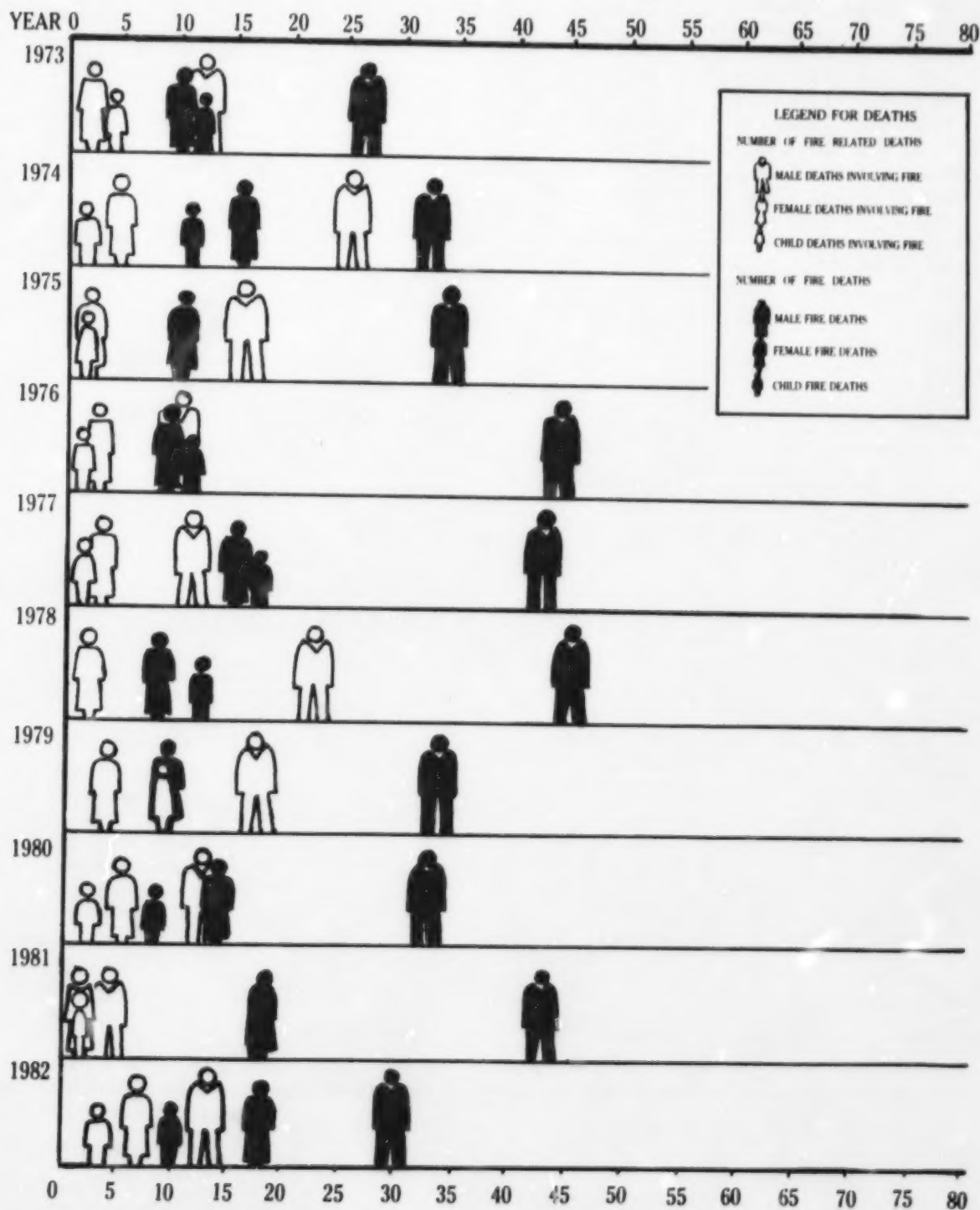
SECTION ONE

ALBERTA FIRE CASUALTIES



DEATHS INVOLVING FIRE AND FIRE DEATHS

Fire deaths refer to persons who died directly as a result of the fire, either by smoke inhalation or burns. Deaths involving fire refer to persons who were in a place where fire occurred, but who may have died from a cause other than the fire itself (e.g. a person who dies in an automobile accident where the vehicle catches fire, a suicide, a death in an arson fire).



DEATH RATES

Year	ALBERTA					CANADA
	Population	Fire Deaths	Other Deaths Where Fire Involved	Total Deaths	Fire Death Rate*	Fire Death Rate*
1973	1,690,000	49	16	65	2.9	3.3
1974	1,722,000	61	31	92	3.5	4.1
1975	1,778,000	55	19	74	3.1	3.6
1976	1,838,000	64	14	78	3.5	3.7
1977	1,894,000	76	16	92	4.0	3.5
1978	1,954,000	66	25	91	3.4	3.6
1979	2,014,000	51	21	72	2.5	3.1
1980	2,146,000	55	21	76	2.6	3.4
1981	2,278,000	77	6	83	3.4	2.9
1982	2,332,000	58	25	83	2.5	N/A

* Deaths per 100,000 population

CASUALTIES BY AGE AND SEX 1982

Casualty	AGE IN YEARS									Total
	0-5	6-15	16-25	26-35	36-45	46-55	56-65	Over 65	Unknown	
Deaths										
Civilian:										
Male	5	1	8	3	5	4	5	4	0	35
Female	1	3	3	4	1	3	4	4	0	23
Firefighter:										
Male	0	0	0	0	0	0	0	0	0	0
Female	0	0	0	0	0	0	0	0	0	0
Total Deaths	6	4	11	7	6	7	9	8	0	58
Injuries										
Civilian:										
Male	7	5	59	54	32	14	19	17	47	254
Female	1	9	18	18	5	2	5	2	13	73
Firefighter:										
Male	0	0	11	36	8	9	0	1	4	69
Female	0	0	0	0	0	1	0	0	0	1
Total Injuries	8	14	88	108	45	26	24	20	64	397

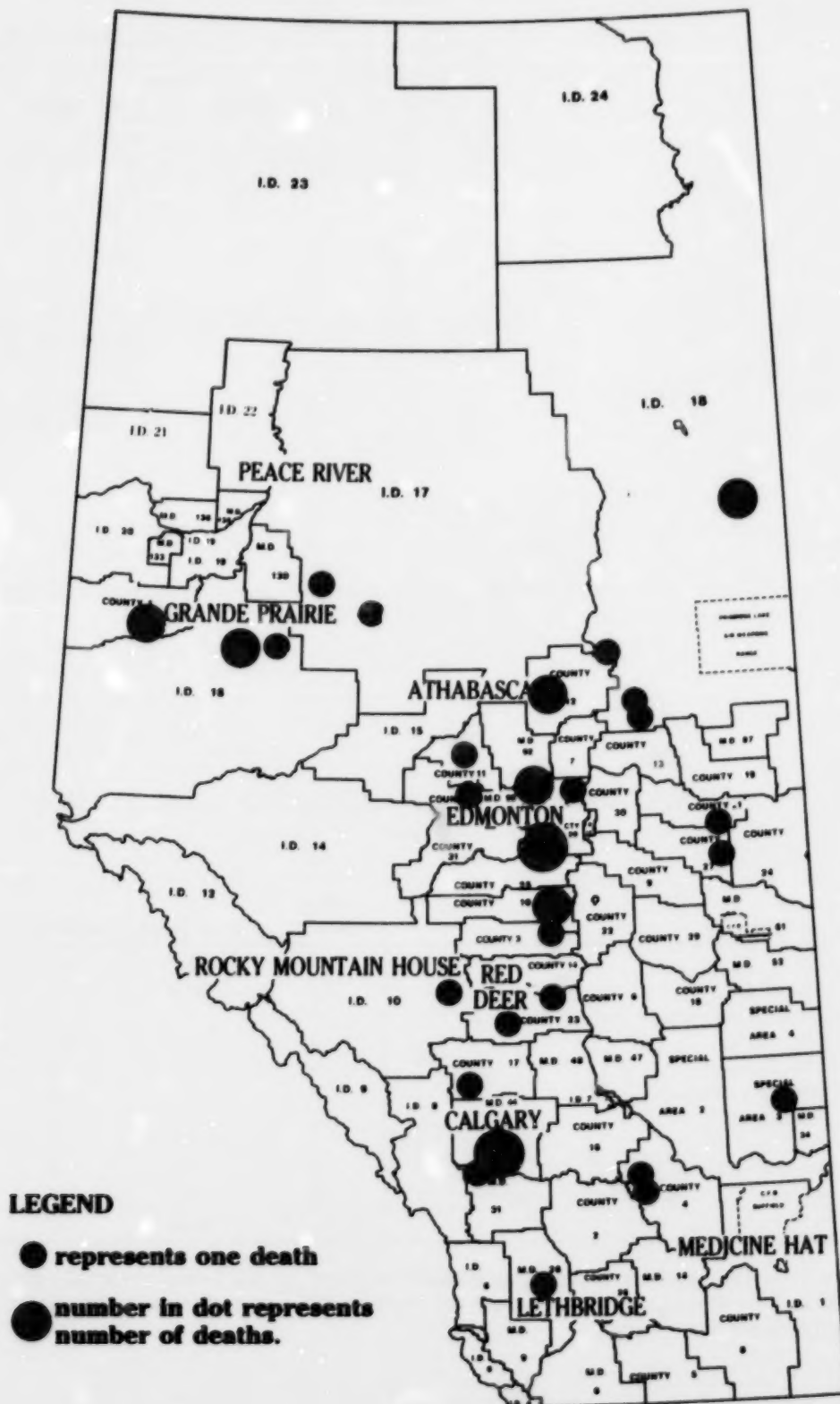
Commentary: The greatest number of fire deaths occurred in the 16-25 age category followed closely by the 56-65 and over 65 categories. Injuries were greatest in the 26-35 age category.

CIRCUMSTANCES CONTRIBUTING TO CASUALTIES 1982

Condition of Casualty	Fire Deaths	% of Total	Injuries	% of Total
Not applicable	3	5.2	190	47.9
Asleep at time of fire	19	32.8	50	12.6
Bedridden or other physical or mental handicap	0	—	2	.5
Impairment by alcohol	9	15.5	22	5.5
Impairment by drugs	0	—	3	.8
Under restraint or detention	0	—	0	—
Too young to act	2	3.4	8	2.0
Senile	0	—	0	—
Left unattended (children)	2	3.4	2	.5
Condition of casualty — unclassified or unknown	23	39.7	120	30.2
TOTAL	58	100.0	397	100.0

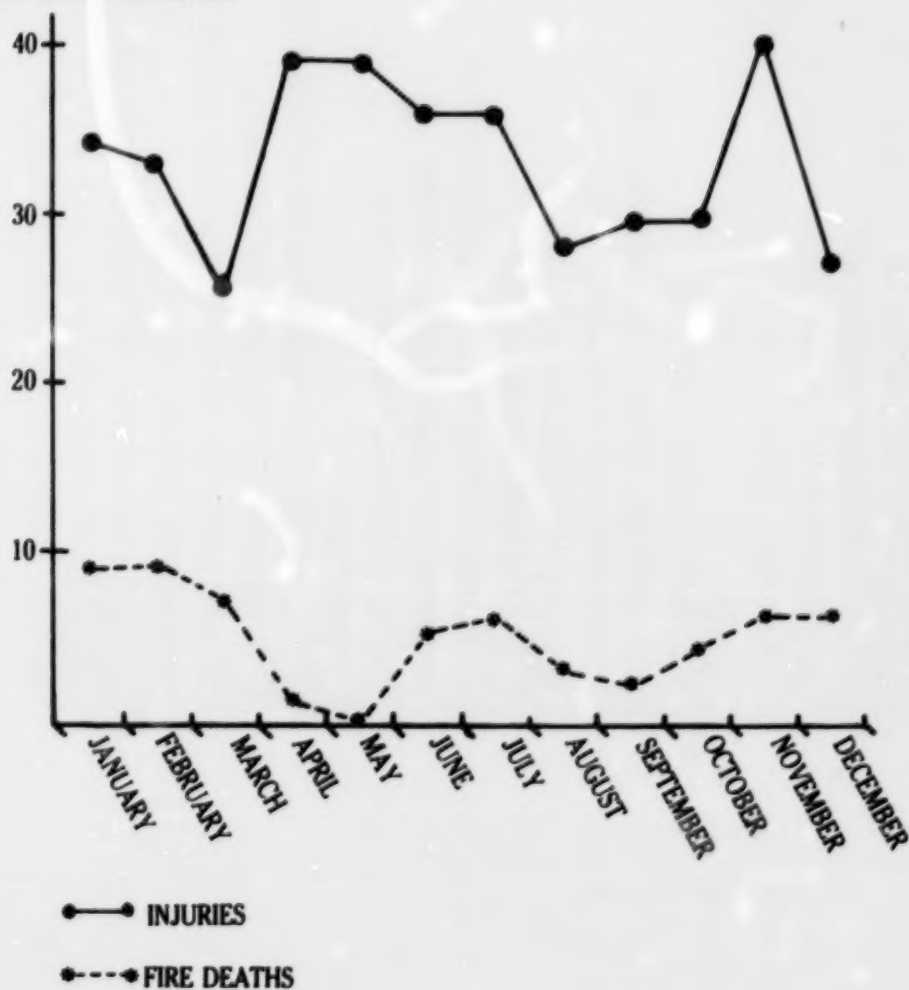
Commentary: Where the condition of the victim is known in a fatal fire, the victim was usually asleep or impaired by alcohol. While little information is known about the condition of the injured casualty, the most common known factor is that the victim was asleep.

DEATHS BY GEOGRAPHIC LOCATION 1982



CASUALTIES BY MONTH 1982

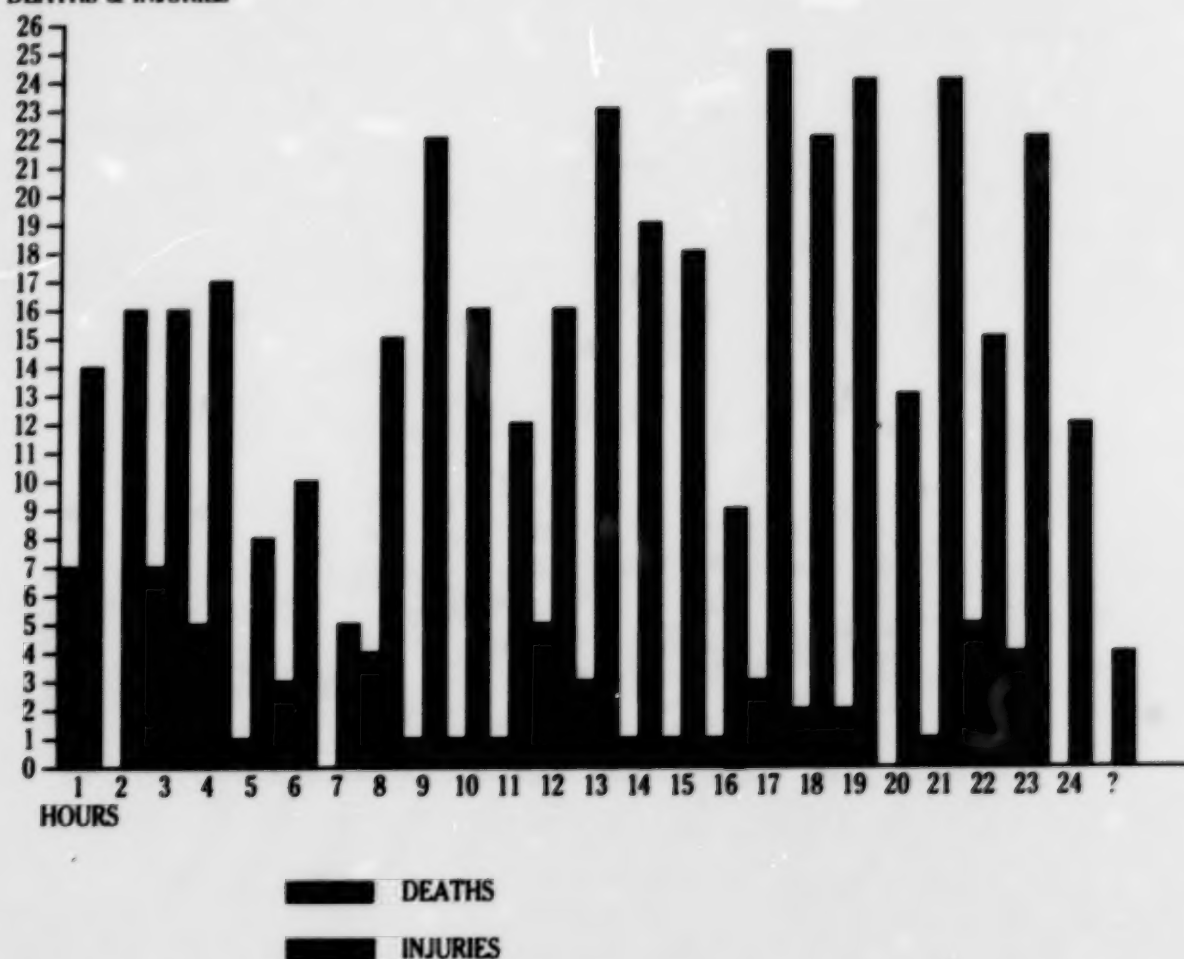
NUMBER OF CASUALTIES



Commentary: The number of fire deaths per month appears to be higher in the winter months than during the warmer seasons.

CASUALTIES BY HOUR OF DAY 1982

DEATHS & INJURIES



Time Period	Fire Deaths	% of Total	Injuries	% of Total
6:31 a.m. - 2:30 p.m.	16	27.6	128	32.2
2:31 p.m. - 10:30 p.m.	15	25.9	150	37.8
10:31 p.m. - 6:30 a.m.	27	46.6	115	29.0
Unknown	0	—	4	1.0
TOTAL	58	100.1	397	100.0

Commentary: While over 45% of fire deaths occurred from 10:31 p.m. to 6:30 a.m. (assuming this is the time period when most people are sleeping) injuries were fairly evenly distributed throughout the day.

CASUALTIES BY MAJOR PROPERTY CLASSIFICATIONS 1982

Property Classification	Fire Deaths	% of Total	Deaths Involving Fire	Injuries	% of Total
ASSEMBLY					
Theatre, Studio, Auditorium	0	—	0	0	—
Amusement, Recreation Place	0	—	0	2	.5
School, College, University	0	—	0	1	.2
Church, Court Room, Funeral Parlour	0	—	0	0	—
Social, Sport Club	0	—	0	3	.8
Library, Museum	0	—	0	0	—
Eating Establishment	0	—	0	8	2.0
Passenger Terminal, Station	0	—	0	0	—
Miscellaneous	0	—	0	0	—
Sub-Total ..	0	—	0	14	3.5
INSTITUTIONAL					
Prison, Jail, Reformatory	0	—	0	1	.3
Home for Aged	0	—	0	0	—
Children's Hospital	0	—	0	0	—
Hospital, Sanatorium, Clinic	0	—	0	0	—
Miscellaneous	0	—	0	0	—
Sub-Total	0	—	0	1	.3
RESIDENTIAL					
One and Two Family Residence	36	62.1	4	124	31.2
Apartment	5	8.6	0	64	16.1
Rooming, Boarding House	0	—	0	0	—
Hotel	1	1.7	0	9	2.3
Motor Hotel	0	—	0	0	—
Dormitory	1	1.7	0	3	.8
Mobile Home	11	19.0	0	29	7.3
Miscellaneous	0	—	0	0	—
Sub-Total	54	93.1	4	229	57.7
BUSINESS AND PERSONAL SERVICE					
Office	0	—	0	3	.8
Personal Service	0	—	1	1	.2
Electronic Equipment	0	—	0	0	—
Miscellaneous	0	—	0	0	—
Sub-Total	0	—	1	4	1.0
MERCANTILE					
Food, Beverage Sale	0	—	0	2	.5
Textile, Wearing Apparel Sale	0	—	0	1	.2
Furniture, Appliance, Hardware Sale	0	—	0	1	.2
Books, Newspapers, Drugs, Specialties	0	—	0	1	.2
Recreation, Hobby Supplies	0	—	0	0	—
Repair Shop, Laundry, Dry Cleaner	0	—	0	1	.2
Motor Vehicles, Boats, Sales and Service	0	—	0	10	2.5
Department, Variety Store	0	—	0	2	.5
Miscellaneous	0	—	0	4	1.0
Sub-Total	0	—	0	22	5.5

CASUALTIES BY MAJOR PROPERTY CLASSIFICATIONS 1982 (Cont.)

Property Classification	Fire Deaths	% of Total	Deaths Involving Fire	Injuries	% of Total
INDUSTRIAL MANUFACTURING PROPERTIES					
Chemicals, Petroleum, Paints, Plastics	0	—	0	7	1.8
Wood, Furniture, Paper, Printing	0	—	0	0	—
Metal, Metal Products, Electrical Appliances	0	—	0	1	.2
Food Processing	0	—	0	4	1.0
Beverages, Tobacco, Soap, Margarine	0	—	0	0	—
Textiles	0	—	0	0	—
Footwear, Wearing Apparel	0	—	0	2	.5
Vehicles and Related Equipment	0	—	0	0	—
Miscellaneous	0	—	0	0	—
Sub-Total	0	—	0	14	3.5
INDUSTRIAL STORAGE PROPERTIES					
Agricultural Products	0	—	0	8	2.0
Textiles, Fibres, Clothing	0	—	0	0	—
Processed Food, Beverages	0	—	0	0	—
Flammable Liquids, Gases, Petroleum	1	1.7	0	4	1.0
Wood, Furniture, Paper and Products	0	—	0	1	.3
Chemicals, Plastics, Paints	0	—	0	0	—
Metal Goods, Machinery, Electrical Appliances	0	—	0	0	—
Vehicles	0	—	0	15	3.8
Miscellaneous	0	—	0	0	—
Sub-Total	1	1.7	0	28	7.1
SPECIAL PROPERTY					
Outdoor Property	0	—	0	15	3.8
Pier, Wharf	0	—	0	0	—
Under Construction/Demolition: Vacant	0	—	0	14	3.5
Watercraft	0	—	0	1	.2
Rail Transport Vehicle and Equipment	0	—	0	6	1.5
Ground Transport Vehicle	2	3.4	20	28	7.1
Aircraft	0	—	0	0	—
Special Vehicle	0	—	0	7	1.8
Miscellaneous	0	—	0	0	—
Sub-Total	2	3.4	20	71	17.9
MISCELLANEOUS PROPERTIES					
Laboratories	0	—	0	2	.5
Farm Facilities	1	1.7	0	4	1.0
Miscellaneous Outbuildings	0	—	0	3	.8
Utility	0	—	0	1	.2
Cement, Glass, Pottery Manufacturing	0	—	0	0	—
Mining, Quarrying	0	—	0	4	1.0
Communications	0	—	0	0	—
Nucleonics	0	—	0	0	—
Miscellaneous	0	—	0	0	—
Sub-Total	1	1.7	0	14	3.5
TOTAL	58	99.9	25	397	100.0

Commentary: Over 93% of fire deaths occurred in residential properties, while 58% of injuries occurred in this property classification.

CASUALTIES BY ACT OR OMISSION 1982

Act or Omission	Fire Deaths	% of Total	Deaths Involving Fire	Injuries	% of Total
INCENDIARY					
Arson, Charges Laid	0	—	4	9	2.3
Suspected Arson, No Charges Laid	0	—	1	30	7.6
Mischief, Vandalism, No Charges Laid	0	—	0	5	1.3
Incendiary, Unclassified	0	—	1	1	.2
Sub-Total	0	—	6	45	11.3
MISUSE OF SOURCE OF IGNITION					
Disposal of Smokers' Material	14	24.1	0	29	7.3
Thawing	0	—	0	1	.3
Inadequate Control of Open Fire	0	—	3	14	3.5
Child Playing with	4	6.9	0	18	4.5
Welding or Cutting Too Close to	0	—	0	8	2.0
Torch Too Close to	0	—	0	1	.3
Misuse of Source of Ignition, Unclassified	1	1.7	0	4	1.0
Sub-Total	19	32.8	3	75	18.9
MISUSE OF MATERIAL IGNITED					
Fuel Spilled	0	—	0	12	3.0
Improper Fueling Technique	0	—	0	8	2.0
Flammable Liquid to Kindle Fire	0	—	0	1	.2
Cleaning Parts	0	—	0	14	3.5
Combustible Placed Too Close to Heat	6	10.3	0	11	2.8
Improper Storage	1	1.7	0	3	.8
Misuse of Material Ignited, Unclassified	0	—	0	7	1.8
Sub-Total	7	12.1	0	56	14.1
MECHANICAL & ELECTRICAL FAILURE, MALFUNCTION					
Part Failure, Leak, Break	1	1.7	0	25	6.3
Automatic Control Failure	0	—	0	2	.5
Electrical Short Circuit	2	3.4	0	21	5.3
Lack of Maintenance	0	—	0	3	.8
Mechanical & Electrical Failure, Unclassified	1	1.7	2	32	8.1
Sub-Total	4	6.9	2	83	20.9
CONSTRUCTION, DESIGN OR INSTALLATION DEFICIENCY					
Construction Deficiency	2	3.4	0	1	.3
Installed Too Close to Combustible	1	1.7	0	0	—
Construction, Design or Installation Deficiency, Unclassified	1	1.7	0	0	—
Sub-Total	4	6.9	0	1	.3
MISUSE OF EQUIPMENT					
Misuse of Equipment, Unclassified	0	—	0	1	.3
HUMAN FAILING					
Asleep	3	5.2	0	20	5.0
Temporary Loss of Judgement	0	—	1	17	4.3
Accident (Personal)	0	—	0	7	1.8
Influence of Alcohol	5	8.6	0	11	2.8
Influence of Drugs	1	1.7	0	2	.5
Human Failing, Unclassified	8	13.8	2	50	12.6
Sub-Total	17	29.3	3	107	27.0
VEHICLE ACCIDENT					
Automobile	0	—	10	2	.5
Other Road Vehicle	0	—	1	0	—
Sub-Total	0	—	11	2	.5
MISCELLANEOUS					
Miscellaneous, Unclassified	7	12.1	0	27	6.8
TOTAL	58	100.1	25	397	100.1

Commentary: Improper disposal of smokers' materials was the leading cause of fatal fires.

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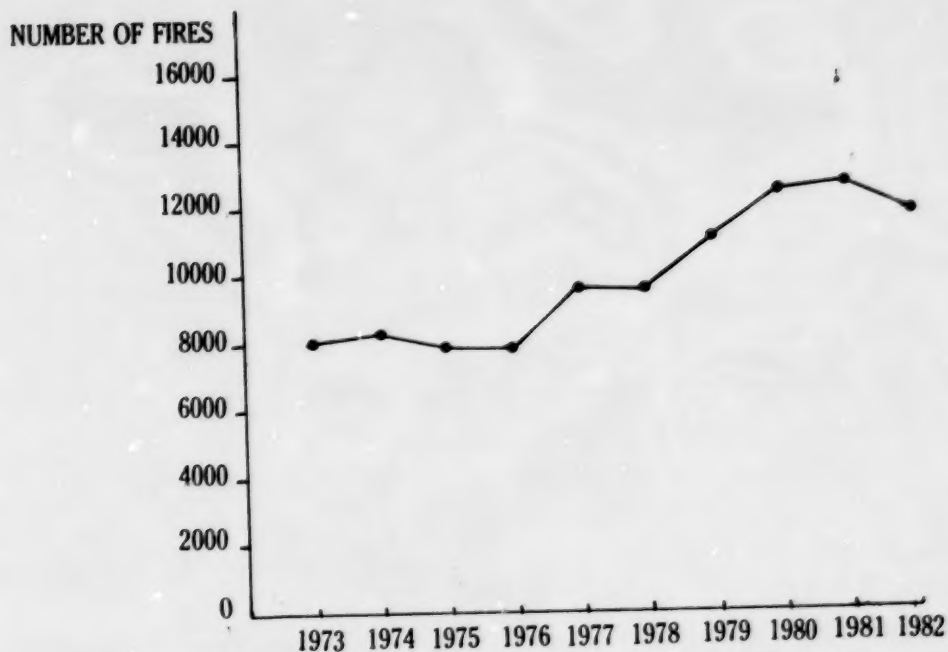
Acceptance for mailing at special rate of postage provided for in Act of October 3, 1917.

SECTION TWO

ALBERTA FIRE LOSS INFORMATION

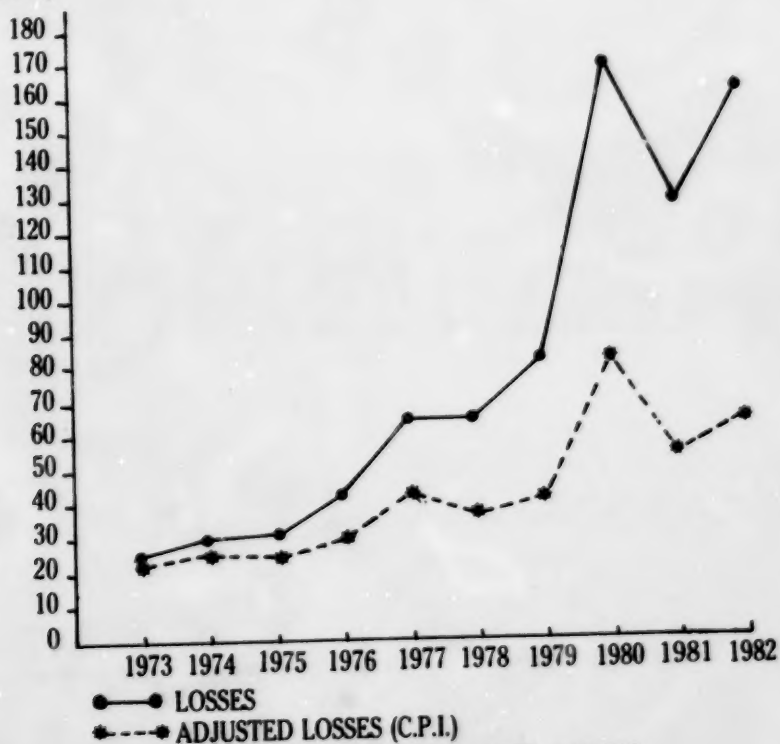


FIRES AND LOSSES 1973 - 1982



Commentary: The number of fires has increased 45 % from 1973 to 1982.

Losses (in \$000,000's)



Commentary: Losses have increased 558% between 1973 and 1982 and adjusted losses have increased 179%.

FIRE RATES AND PER CAPITA LOSSES 1973 - 1982

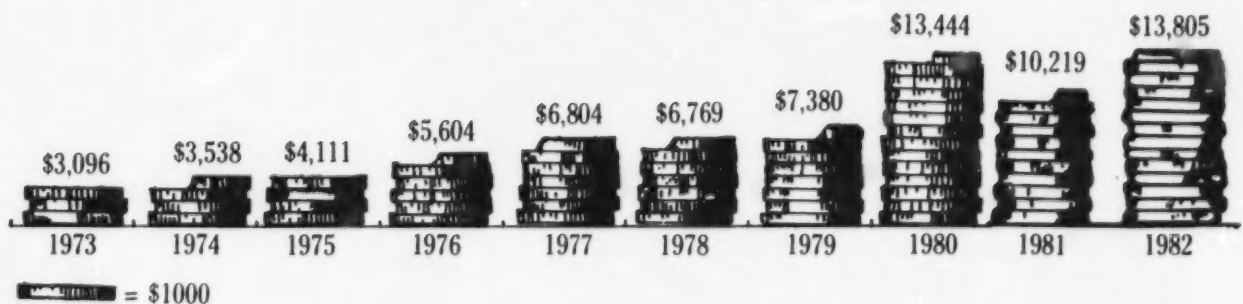
YEAR	POPULATION*	NO. OF FIRES	FIRE RATE**	LOSS ESTIMATE	LOSS PER CAPITA
1973	1,683,000	8,115	4.8	25,121,878	14.93
1974	1,714,000	8,586	5.0	30,379,607	17.72
1975	1,789,000	7,934	4.4	32,617,954	18.23
1976	1,868,000	7,773	4.2	43,562,105	23.32
1977	1,900,000	9,607	5.1	65,544,029	34.50
1978	1,999,000	9,683	4.8	65,279,630	32.66
1979	2,064,000	11,159	5.4	82,942,773	40.19
1980	2,146,000	12,559	5.9	167,073,400	77.86
1981	2,278,000	12,639	5.5	129,126,198	56.69
1982	2,332,000	11,824	5.1	163,233,245	70.00
Average (1973-1982)		9,987		\$ 80,488,081	

* As published by Alberta Quarterly Growth, 4th Quarterly, Alberta Bureau of Statistics

**Number of fires per 1,000 population

Commentary: From 1973 to 1982, Alberta's population increased 39%, the number of fires increased 46%, the fire rate only 6%, the loss estimate 550% and the loss per capita 369%.

AVERAGE LOSS PER FIRE 1973 - 1982



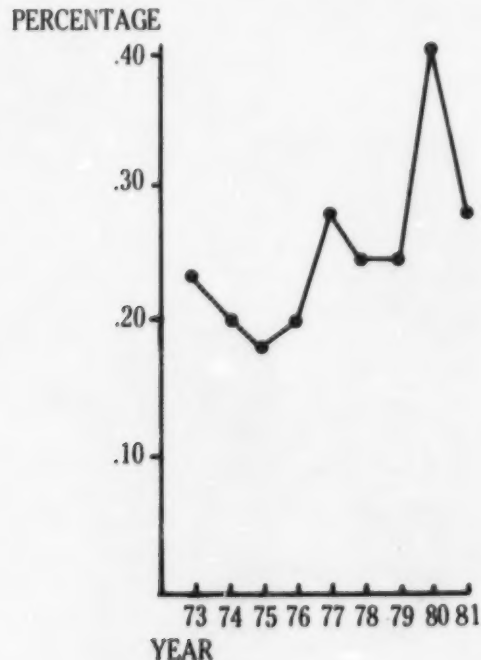
Commentary: There is a 346% increase in the average loss per fire from 1973 to 1982.

FIRE LOSSES RELATED TO ECONOMIC INDICES 1973 - 1982

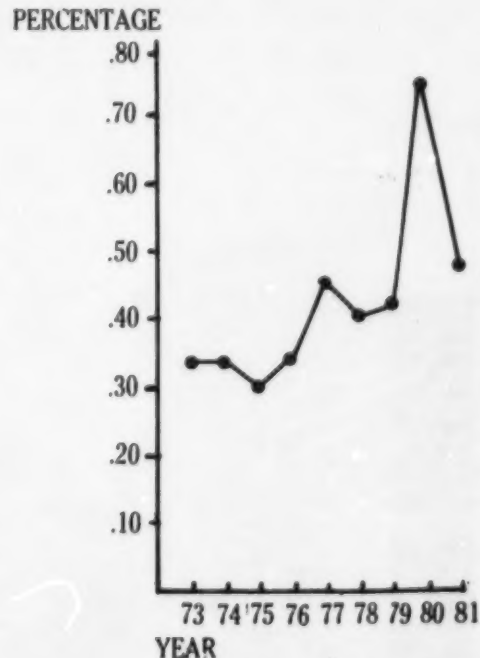
Year	Fire Losses (in \$000,000's)	GROSS DOMESTIC PRODUCT		PERSONAL INCOME	
		Gross Domestic Product* (in \$000,000's)	% of Net Gross Domestic Product	Personal Income* (in \$000,000's)	% of Personal Income
1973	\$25.1	11,045	.23	\$7,474	.34
1974	30.4	15,336	.20	9,030	.34
1975	32.6	18,584	.18	11,015	.30
1976	43.6	21,641	.20	12,810	.34
1977	65.4	24,364	.27	14,545	.45
1978	65.6	27,862	.24	16,483	.40
1979	82.3	34,358	.24	19,493	.42
1980	168.5	41,612	.40	22,655	.74
1981	129.2	47,440	.27	27,630	.47
1982	163.2	N/A	—	N/A	—

* Alberta Economic Accounts, 1981.

**FIRE LOSSES AS A PERCENTAGE
OF GROSS DOMESTIC PRODUCT**

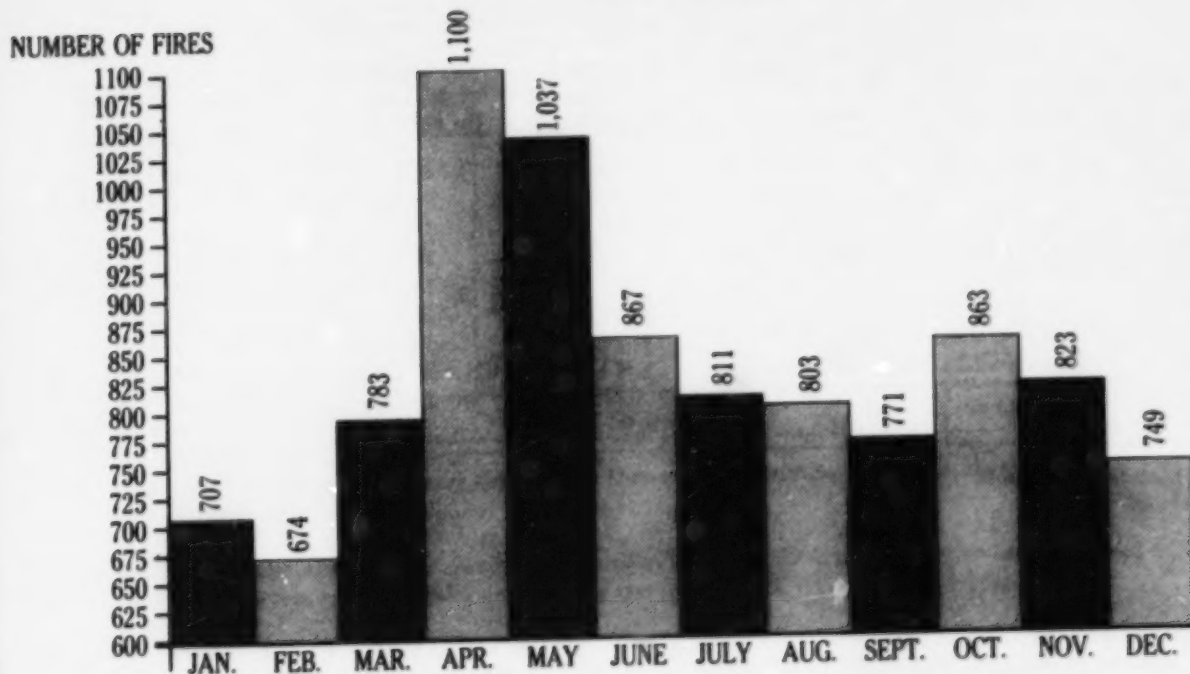


**FIRE LOSSES AS A PERCENTAGE
OF PERSONAL INCOME**

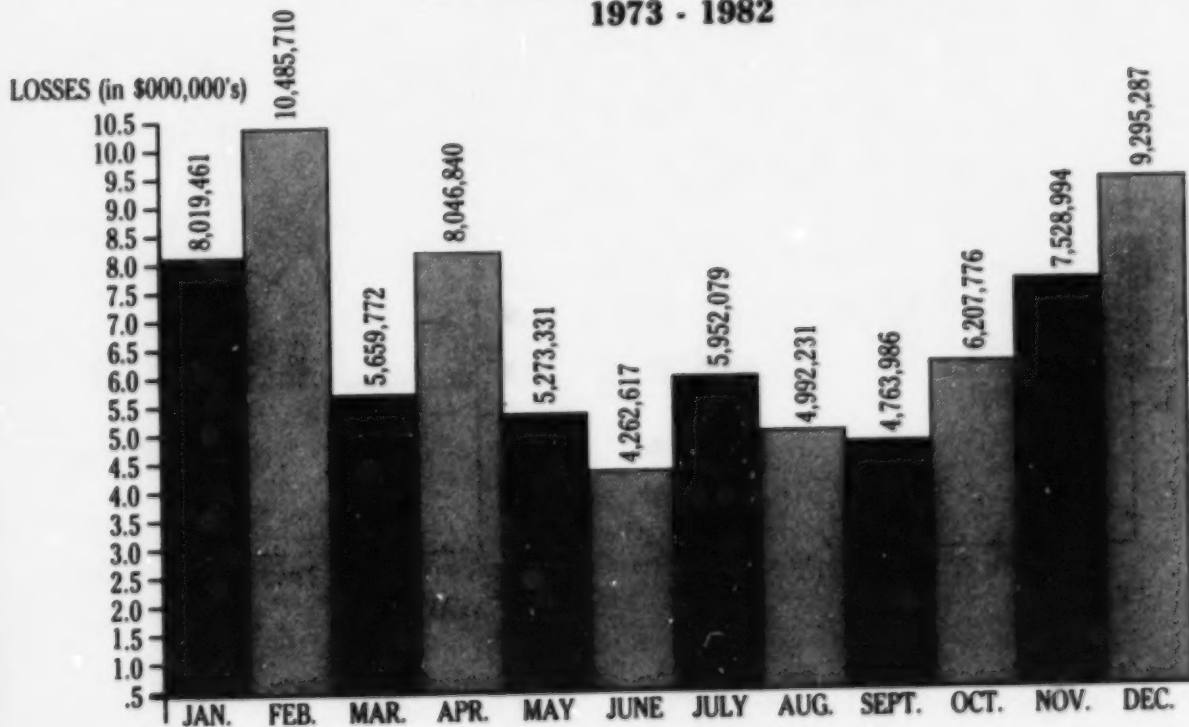


Commentary: As a percentage of gross domestic product, fire losses have increased 17% between 1973 and 1981. As a percentage of personal income, fire losses increased 38% during the same time period.

AVERAGE NUMBER OF FIRES BY MONTH 1973 - 1982



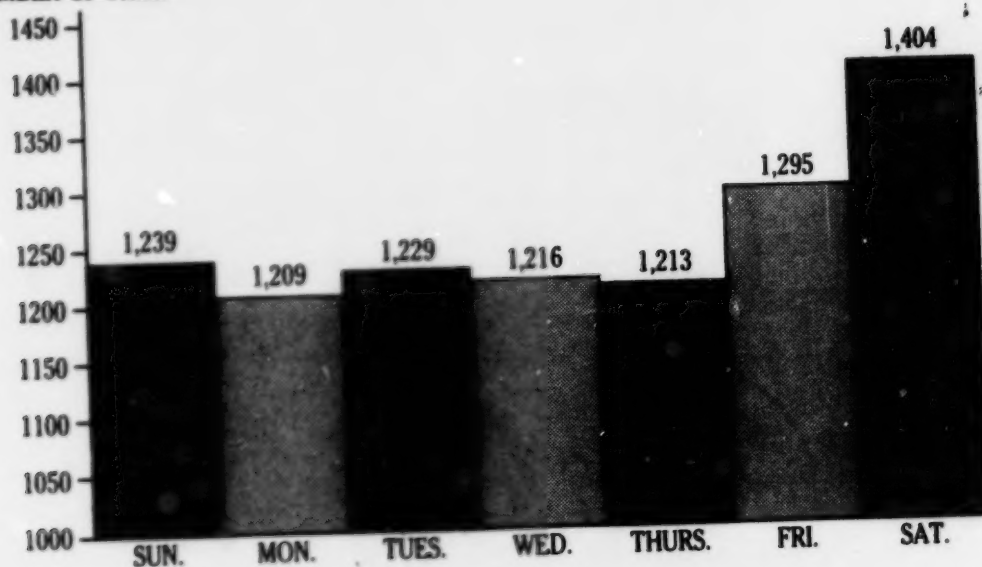
AVERAGE FIRE LOSS BY MONTH 1973 - 1982



Commentary: While the average number of fires was greatest in the months of April and May, average losses were highest in February and December. The highest average loss per fire per month (\$15,557) was in February.

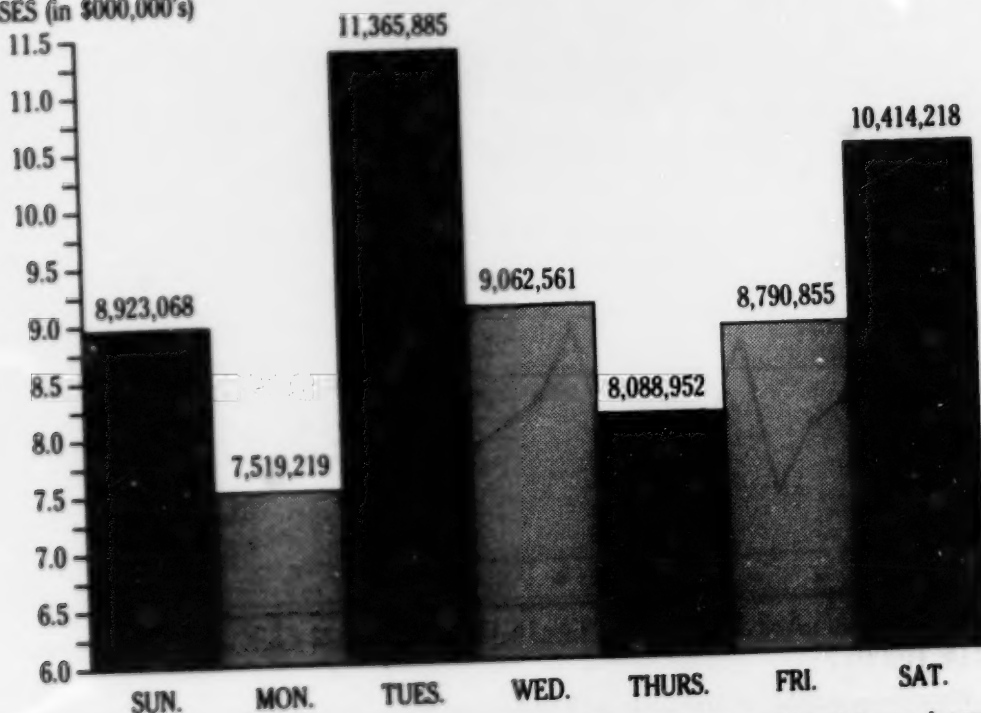
AVERAGE NUMBER OF FIRES BY DAY OF WEEK PER YEAR 1973 - 1982

NUMBER OF FIRES



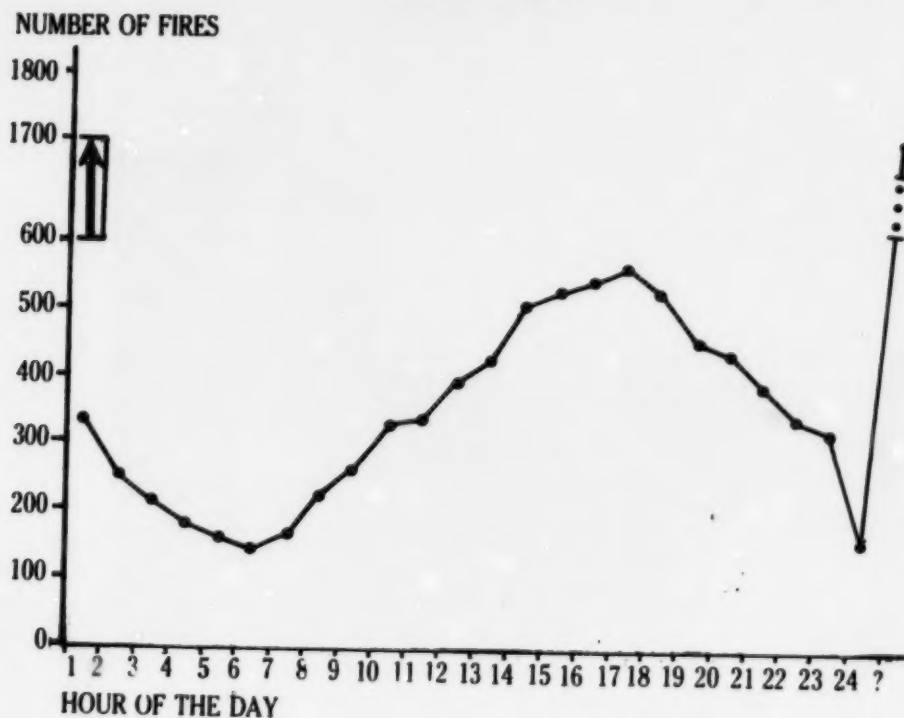
AVERAGE FIRE LOSS BY DAY OF WEEK PER YEAR 1973 - 1982

LOSSES (in \$000,000's)

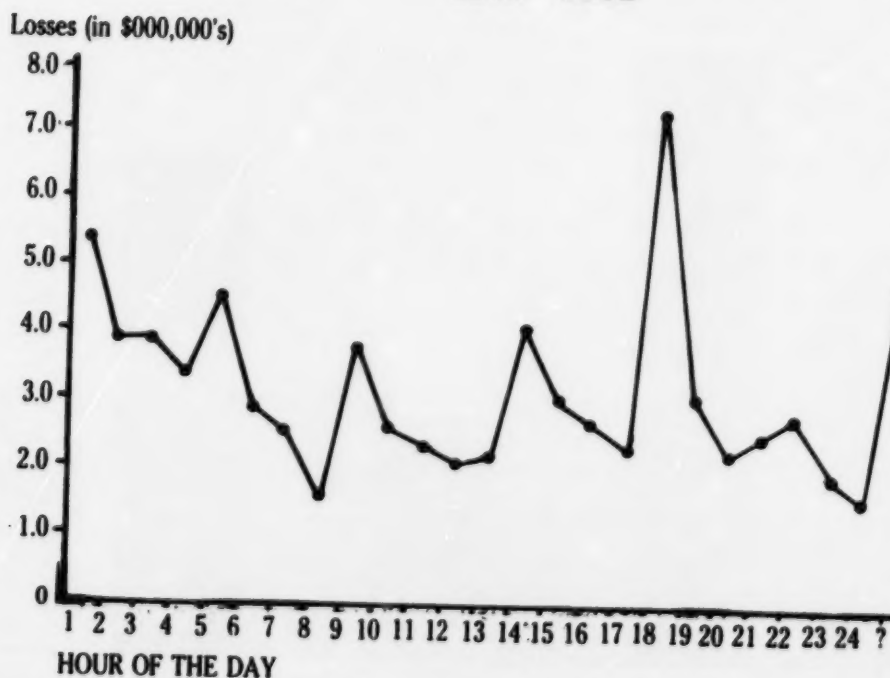


Commentary: From 1973 to 1982, the highest average number of fires on any day of the week occurred on Saturday. Tuesday and Saturday had higher losses than other days, with Monday having the lowest losses.

AVERAGE NUMBER OF FIRES BY HOUR OF DAY PER YEAR 1973 - 1982



AVERAGE FIRE LOSS BY HOUR OF DAY PER YEAR 1973 - 1982



Commentary: While the greatest number of fires occurred between the hours of 1400 (2:00 p.m.) and 2000 (8:00 p.m.), the greatest losses generally occurred during the early morning hours. The greatest average loss was sustained at 1800 (6:00 p.m.), but this high average is a reflection of a \$35,000,000 fire which occurred at that hour in 1980.

FIRES BY LOSS CATEGORY — 1982



The before and after of a fire that totally destroyed a single family dwelling.

LOSS CATEGORY	NUMBER	LOSSES	PERCENTAGE NUMBER	PERCENTAGE LOSSES
\$1-99	3,245	\$ 49,943	27.5	.1
100-999	3,388	1,320,631	28.7	.8
1,000-9,999	3,651	11,766,487	30.9	7.2
10,000-49,999	1,081	23,773,845	9.1	14.6
50,000-249,999	380	35,214,020	3.2	21.6
250,000 and over	79	91,108,319	.7	55.8
TOTAL	11,824	\$ 163,233,245	100.1	100.1

Commentary: Just over one-half of one per cent of the fires caused 55.8% of the 1982 losses.

1982 LARGE LOSS FIRES (\$500,000 and over)

PROPERTY CLASS	DATE	LOCATION	OCCUPANCY	ACT OR OMISSION	LOSSES	DEATH	INJURIES
ASSEMBLY	July 21	Edmonton	city club	incendiary	\$ 950,000		1
	Oct 18	Calgary	university	welding/cutting too close	900,000		
	Oct 31	High Prairie	junior high school	unknown	1,507,049		
	Nov 29	St. Paul	swimming pool	part failure	1,250,000		1
	Dec 14	Sexsmith	arena	unknown	1,020,900		
	Dec 25	Wetaskiwin	social club	smoker's material	703,711		
RESIDENTIAL	Jan 13	Coronation	hotel	incendiary	1,239,524		
	Feb 3	Rainbow Lake	apartment	child playing with	840,000		1
	Aug 24	Cty. 17	single family dwelling	misuse of material	667,921		
BUSINESS AND PERSONAL SERVICE	April 9	Edmonton	general business office	human failing	709,552		2
	April 30	Edmonton	general business office	incendiary	760,000		
MERCANTILE	April 29	Edmonton	supermarket	incendiary	1,420,968		1
	July 8	High Level	welder's supply sales	mechanical/electrical malfunction	580,000		1
	Dec 12	Edmonton	motor vehicle accessory sales	unknown	4,120,350		
INDUSTRIAL MANUFACTURING	Jan 27	Cty. 4	petroleum refinery	design deficiency	522,810		
	April 18	Edmonton	plastic manufacturing	mechanical/electrical malfunction	20,000,000		6
	June 11	Edmonton	sawmill	mechanical/electrical malfunction	800,000		
	July 11	M.D. 90	upholstered furniture manufacturing	unknown	700,000		
	July 19	Edmonton	metal products manufacturing	welding/cutting too close	1,000,000		
INDUSTRIAL STORAGE	Jan 13	Granum	grain elevator	mechanical/electrical malfunction	1,813,213		1
	April 1	I.D. 18	general warehouse	inadequate control of open fire	535,000		
	April 22	Cty. 25	storage tank	welding/cutting too close	630,000		1
	Aug 1	Dewberry	grain elevator	unknown	540,000		
	Aug 22	Edmonton	aircraft hanger	incendiary	1,932,000		
	Oct 13	Bawlf	grain elevator	inadequate control of open fire	1,027,238		
	Nov 1	I.D. 14	storage tank	inadequate control of open fire	520,000		
	Nov 3	M.D. 92	livestock storage	lack of maintenance	1,124,200		
	Dec 14	Taber	packaged food storage	unknown	3,001,825		
SPECIAL	Oct 26	I.D. 18	barge	welding/cutting too close	2,500,000		
MISCELLANEOUS	Jan 20	I.D. 18	petroleum refinery	unknown	12,450,000		
	Jan 27	I.D. 18	petroleum refinery	part failure	1,350,000		
	Feb 15	Cty. 6	gas manufacturing plant	part failure	1,500,000		
	April 11	Cty. 7	petroleum refinery	inadequate control of open fire	580,000		
	July 2	Cty. 31	generating plant	welding/cutting too close	550,000		
	Nov 1	I.D. 14	petroleum refinery	unknown	6,000,000		
	Dec 14	I.D. 17	petroleum refinery	part failure	500,000		

FIRES BY MAJOR PROPERTY CLASSIFICATIONS 1982

Property Classification	Number of Fires	% of Total	Losses	% of Total
ASSEMBLY				
Theatre, Studio, Auditorium	6	.1	279,260	.2
Amusement, Recreation Place	40	.3	3,061,532	1.9
School, College, University	74	.6	3,660,551	2.2
Church, Court Room, Funeral Parlour	13	.1	316,307	.2
Social, Sport Club	16	.1	2,122,194	1.3
Library, Museum	1	0	50	0
Eating Establishment	72	.6	3,085,089	1.9
Passenger Terminal, Station	2	0	1,130	0
Miscellaneous	2	0	14,035	0
Sub-Total	226	1.9	12,540,148	7.7
INSTITUTIONAL				
Prison, Jail, Reformatory	13	.1	9,115	0
Home for Aged	18	.2	11,979	0
Children's Hospital	6	.1	45,969	0
Hospital, Sanatorium, Clinic	46	.4	85,518	.1
Miscellaneous	2	0	21	0
Sub-Total	85	.7	152,602	.1
RESIDENTIAL				
One and Two Family Residence	2,228	18.8	23,344,349	14.3
Apartment	779	6.6	5,271,082	3.2
Rooming, Boarding House	14	.1	58,249	0
Hotel	71	.6	2,763,631	1.7
Motor Hotel	24	.2	183,269	.1
Dormitory	23	.2	261,734	.2
Mobile Home	396	3.3	5,072,759	3.1
Miscellaneous	10	.1	11,875	0
Sub-Total	3,545	30.0	36,966,948	22.6
BUSINESS AND PERSONAL SERVICE				
Office	60	.5	2,446,487	1.5
Personal Service	6	.1	166,913	.1
Electronic Equipment	2	0	35,150	0
Miscellaneous	1	0	10,000	0
Sub-Total	69	.6	2,658,550	1.6
MERCANTILE				
Food, Beverage Sale	32	.3	1,624,582	1.0
Textile, Wearing Apparel Sale	13	.1	539,498	.3
Furniture, Appliance, Hardware Sale	13	.1	627,429	.4
Books, Newspapers, Drugs, Specialties	17	.1	131,311	.1
Recreation, Hobby Supplies	4	0	49,650	0
Repair Shop, Laundry, Dry Cleaner	23	.2	379,021	.2
Motor Vehicles, Boats, Sales and Service	77	.7	6,078,481	3.7
Department, Variety Store	12	.1	58,757	0
Miscellaneous	15	.1	1,414,262	.9
Sub-Total	206	1.7	10,902,991	6.7

FIRES BY MAJOR PROPERTY CLASSIFICATIONS 1982 (Cont.)

Property Classification	Number of Fires	% of Total	Losses	% of Total
INDUSTRIAL MANUFACTURING PROPERTIES				
Chemicals, Petroleum, Paints, Plastics	22	.2	21,898,702	13.4
Wood, Furniture, Paper, Printing	24	.2	2,226,216	1.4
Metal, Metal Products, Electrical Appliances	31	.3	2,141,010	1.3
Food Processing	23	.2	399,148	.2
Beverages, Tobacco, Soap, Margarine	4	0	419,342	.3
Textiles	0	—	—	—
Footwear, Wearing Apparel	4	0	424,800	.3
Vehicles and Related Equipment	3	0	326,247	.2
Miscellaneous	9	.1	184,093	.1
Sub-Total	120	1.0	28,019,558	17.2
INDUSTRIAL STORAGE PROPERTIES				
Agricultural Products	125	1.1	6,841,995	4.2
Textiles, Fibres, Clothing	0	—	—	—
Processed Food, Beverages	4	0	3,042,425	1.9
Flammable Liquids, Gases, Petroleum	38	.3	1,816,750	1.1
Wood, Furniture, Paper and Products	9	.1	614,383	.4
Chemicals, Plastics, Paints	2	0	4,100	0
Metal Goods, Machinery, Electrical Appliances	7	.1	56,595	0
Vehicles	307	2.6	5,000,316	3.1
Miscellaneous	41	.3	1,666,522	1.0
Sub-Total	533	4.5	19,043,086	11.7
SPECIAL PROPERTY				
Outdoor Property	2,399	20.3	708,319	.4
Pier, Wharf	2	0	1,300	0
Under Construction/Demolition: Vacant	217	1.8	3,098,502	1.9
Watercraft	25	.2	2,642,319	1.6
Rail Transport Vehicle and Equipment	25	.2	427,907	.3
Ground Transport Vehicle	3,401	28.8	9,913,024	6.1
Aircraft	3	0	5,601	0
Special Vehicle	280	2.4	5,819,525	3.6
Miscellaneous	14	.1	18,927	0
Sub-Total	6,366	53.8	22,635,424	13.9
MISCELLANEOUS PROPERTIES				
Laboratories	11	.1	74,156	0
Farm Facilities	260	2.2	3,748,428	2.3
Miscellaneous Outbuildings	257	2.2	1,286,340	.8
Utility	104	.9	2,978,002	1.8
Cement, Glass, Pottery Manufacturing	6	.1	57,121	0
Mining, Quarrying	35	.3	22,161,379	13.6
Communications	1	0	8,512	0
Nucleonics	0	—	—	—
Miscellaneous	0	—	—	—
Sub-Total	674	5.7	30,313,938	18.6
TOTAL	11,824	99.9	163,233,245	100.1

Commentary: While the number of fires was greatest in the "special" classification (notably outdoor property and vehicles) with 54%, losses were greatest in residential properties with 23%.

PROPERTY LOSSES RELATED TO AREA OF ORIGIN 1982

Property Classification	MEANS OF EGRESS		ASSEMBLY AREA		FUNCTION AREA		STORAGE AREA	
	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses
Assembly	20	401,577	21	1,428,237	85	5,895,801	21	1,171,124
Institutional	6	7,053	4	45,203	58	87,622	7	8,401
Residential	125	1,165,164	489	6,462,083	1,982	14,972,162	136	4,266,327
Business	12	36,357	3	156,833	19	643,482	9	48,769
Mercantile	4	367,870	18	664,828	37	1,877,981	37	5,446,708
Manufacturing	2	601	1	5,000	38	1,610,532	14	1,652,952
Storage	2	46,000	0	—	9	609,918	241	8,580,415
Special	12	92,824	13	491,754	43	684,875	27	204,402
Miscellaneous	1	123,622	0	—	45	14,200,529	120	1,959,958
TOTAL	184	2,241,068	549	9,253,938	2,316	40,582,902	612	23,339,056

Property Classification	SERVICE FACILITIES		SERVICE AND EQUIPMENT AREA		STRUCTURAL AREA		VEHICLE AREA	
	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses
Assembly	10	200,635	29	1,386,932	33	2,052,626	0	—
Institutional	0	—	8	4,272	2	51	0	—
Residential	72	428,748	259	4,283,645	393	4,661,555	40	334,593
Business	4	36,521	10	1,663,087	11	63,501	0	—
Mercantile	6	43,151	63	1,233,198	30	1,240,617	0	—
Manufacturing	7	30,206	43	24,484,266	8	215,801	0	—
Storage	4	1,867,045	27	880,476	149	4,865,405	7	1,158,062
Special	9	191,927	20	446,760	99	1,259,254	3,694	18,047,447
Miscellaneous	9	133,516	63	4,208,159	232	2,939,542	1	300
TOTAL	121	2,931,749	522	38,590,795	957	17,298,352	3,742	19,540,402

Property Classification	OUTSIDE AREA		TOTAL		Commentary: For all types of occupancies, fires starting in service and equipment areas (furnace room, maintenance shop, machinery room) caused an average \$73,929 loss. The next highest average loss, \$38,136 occurred when fires started in storage areas. The average loss in a residential fire was \$10,428, but if the fire started in a storage area the average loss increased to \$31,370.
	Number of Fires	Losses	Number of Fires	Losses	
Assembly	7	3,216	226	12,540,148	
Institutional	0	—	85	152,602	
Residential	49	392,671	3,545	36,966,948	
Business	1	10,000	69	2,658,550	
Mercantile	11	28,638	206	10,902,991	
Manufacturing	7	20,200	120	28,019,558	
Storage	94	1,035,765	533	19,043,086	
Special	2,449	1,216,181	6,366	22,635,424	
Miscellaneous	203	6,748,312	674	30,313,938	
TOTAL	2,821	9,454,983	11,824	163,233,245	

PROPERTY LOSSES RELATED TO ACT OR OMISSION 1982

Property Classification	INCENDIARY FIRES		MISUSE OF SOURCE		MISUSE OF MATERIAL		MECHANICAL, ELECTRICAL FAILURE	
	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses
Assembly	63	4,229,860	40	2,219,705	12	255,169	49	1,872,937
Institutional	17	122,496	26	9,832	7	1,713	19	9,311
Residential	226	5,981,732	929	8,048,389	166	3,008,021	737	7,286,620
Business	19	1,067,295	18	41,604	2	25,180	21	307,999
Mercantile	31	2,316,825	40	844,174	20	865,253	78	1,486,110
Manufacturing	10	922,487	26	1,986,214	8	530,843	43	22,336,643
Storage	71	2,577,315	222	5,504,516	39	508,924	90	4,287,632
Special	636	2,585,408	1,545	5,765,352	116	576,767	2,312	7,995,110
Miscellaneous	38	95,056	312	3,273,240	18	288,930	140	5,942,832
TOTAL	1,111	19,898,474	3,158	27,693,026	388	6,060,800	3,489	51,525,194

Property Classification	DESIGN DEFICIENCY		MISUSE OF EQUIPMENT		HUMAN FAILINGS		VEHICLE ACCIDENT	
	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses
Assembly	9	281,395	2	5,300	28	288,113	0	—
Institutional	1	50	0	—	14	9,199	0	—
Residential	78	840,782	6	5,876	1,087	5,016,225	1	500
Business	1	35,000	1	1,000	3	710,152	0	—
Mercantile	6	44,797	0	—	12	46,348	2	4,000
Manufacturing	7	546,810	0	—	3	156,450	0	—
Storage	14	366,702	5	41,998	17	76,744	0	—
Special	25	119,589	15	74,872	277	580,776	81	513,181
Miscellaneous	6	22,247	2	74,500	10	3,973	3	500
TOTAL	147	2,257,372	31	203,546	1,451	6,887,980	87	518,181

Property Classification	MISCELLANEOUS		TOTAL	
	Number of Fires	Losses	Number of Fires	Losses
Assembly	23	3,387,669	226	12,540,148
Institutional	1	1	85	152,602
Residential	315	6,778,803	3,545	36,966,948
Business	4	470,320	69	2,658,550
Mercantile	17	5,295,484	206	10,902,991
Manufacturing	23	1,540,111	120	28,019,558
Storage	75	5,679,255	533	19,043,086
Special	1,359	4,424,369	366	22,635,424
Miscellaneous	145	20,612,660	674	30,313,938
TOTAL	1,962	48,188,672	11,824	163,233,245

Commentary: Mechanical and electrical failures caused 30% of all fires and 31% of the losses. Misuse of source of ignition caused 27% of all fires and 17% of all property losses. The average loss in an incendiary fire was \$17,910.

In residential properties, incendiarism resulted in an average loss per fire of \$26,468. The next highest average loss, \$18,121, occurred in fires caused by misuse of materials first ignited, most commonly smokers' materials.

PROPERTY LOSSES RELATED TO FUEL OR ENERGY 1982

Property Classification	COAL OR WOOD ETC.		FUEL OIL		GASOLINE		NATURAL GAS	
	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses
Assembly	42	1,515,819	0	—	3	13,943	32	465,747
Institutional	13	82,902	0	—	0	—	8	1,763
Residential	418	5,004,400	24	563,389	20	249,549	202	2,126,086
Business	11	188,220	0	—	1	35,620	5	106,951
Mercantile	11	80,247	1	32,000	5	74,500	26	808,427
Manufacturing	8	123,250	5	650,320	1	950	13	341,300
Storage	70	2,840,974	6	22,893	17	1,218,733	20	822,924
Special	1,050	1,024,311	38	823,078	1,171	3,884,482	7	169,338
Miscellaneous	72	166,568	11	1,589,122	13	67,608	24	2,053,027
TOTAL	1,695	11,026,691	85	3,680,802	1,231	5,545,385	337	6,895,563

Property Classification	PROPANE ETC.		SMOKERS' MATERIAL		ELECTRICITY		LIGHTNING	
	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses
Assembly	15	1,058,748	18	756,270	48	1,920,345	0	—
Institutional	5	1,850	28	35,928	23	15,216	0	—
Residential	180	3,052,329	587	4,115,956	1,441	9,308,917	30	79,017
Business	1	100	7	674	19	955,830	1	2,600
Mercantile	11	92,904	14	76,782	74	1,289,433	0	—
Manufacturing	14	1,805,852	5	108,272	33	1,716,180	1	124,000
Storage	33	749,341	17	47,838	86	1,277,718	1	540,000
Special	180	3,739,916	442	295,708	1,113	3,148,009	3	22,136
Miscellaneous	19	568,927	19	130,303	103	1,930,600	6	10,813
TOTAL	458	11,069,967	1,137	5,567,731	2,940	21,562,248	42	778,566

Property Classification	UNCLASSIFIED OR UNKNOWN		TOTAL		Commentary: Electricity was the most commonly identified fuel or energy resulting in 25% of the fires and causing the greatest losses (13%). The average loss in a fire initially fueled by fuel oil is in excess of \$43,300.
	Number of Fires	Losses	Number of Fires	Losses	
Assembly	68	6,809,276	226	12,540,148	
Institutional	8	14,943	85	152,602	
Residential	643	12,467,305	3,545	36,966,948	
Business	24	1,368,555	69	2,658,550	
Mercantile	64	8,448,698	206	10,902,991	
Manufacturing	40	23,149,434	120	28,019,558	
Storage	283	11,522,665	533	19,043,086	
Special	2,362	9,528,446	6,366	22,635,424	
Miscellaneous	407	23,796,970	674	30,313,938	
TOTAL	3,899	97,106,292	11,824	163,233,245	

PROPERTY LOSSES RELATED TO SOURCE OF IGNITION 1982

Property Classification	HEATING EQUIPMENT		COOKING EQUIPMENT		SMOKERS' MATERIAL		ELECTRICAL DISTRIBUTION EQUIPMENT	
	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses
Assembly	24	1,536,330	38	544,844	18	756,270	15	244,707
Institutional	5	3,551	9	8,008	28	35,928	3	1,950
Residential	387	5,406,971	1,054	4,172,134	587	4,115,081	223	3,524,137
Business	6	75,131	2	35,460	7	674	6	180,368
Mercantile	27	862,688	4	21,273	14	76,782	35	454,933
Manufacturing	14	780,052	3	178,500	5	108,272	6	486,642
Storage	58	1,199,831	5	32,848	18	47,938	50	765,629
Special	83	1,015,130	25	99,220	442	295,708	1,032	2,781,954
Miscellaneous	30	954,342	4	1,751	18	120,303	70	774,070
TOTAL	634	11,834,026	1,144	5,094,038	1,137	5,556,956	1,440	9,214,390

Property Classification	ELECTRICAL APPLIANCES		OTHER APPLIANCES		"OPEN" FLAME		EXPOSURE	
	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses
Assembly	11	155,934	9	19,845	64	3,504,116	6	25,607
Institutional	8	3,149	5	321	24	98,063	0	—
Residential	177	1,165,424	158	659,038	447	6,316,839	146	1,025,768
Business	9	770,872	2	1,900	15	229,600	7	33,980
Mercantile	27	738,496	14	55,796	32	463,373	15	199,706
Manufacturing	8	903,807	4	135,951	24	2,327,217	4	50,515
Storage	18	200,727	13	1,196,501	98	3,485,304	150	3,994,704
Special	50	148,879	1,213	4,489,674	1,324	4,792,340	498	2,336,928
Miscellaneous	31	1,144,662	19	359,065	91	1,246,611	244	1,936,585
TOTAL	339	5,231,950	1,437	6,918,091	2,119	22,463,463	1,070	9,603,793

Property Classification	MISCELLANEOUS		TOTAL		Commentary: Open flames were the source of ignition for 18% of the fires and 14% of the losses. Where a source of ignition was identified, the highest average loss of \$18,666 was in fires where the source was heating equipment. The next highest average loss, \$15,433, was in fires where electrical appliances were the source of ignition. In residential properties, the highest average loss, \$15,803, was in fires where the source of ignition was electrical distribution equipment.
	Number of Fires	Losses	Number of Fires	Losses	
Assembly	41	5,752,495	226	12,540,148	
Institutional	3	1,632	85	152,602	
Residential	366	10,581,556	3,545	36,966,948	
Business	15	1,330,565	69	2,658,550	
Mercantile	38	8,029,944	206	10,902,991	
Manufacturing	52	23,048,602	120	28,019,558	
Storage	123	8,119,604	533	19,043,086	
Special	1,699	6,675,591	6,366	22,635,424	
Miscellaneous	167	23,776,549	674	30,313,939	
TOTAL	2,504	87,316,538	11,824	163,233,245	

PROPERTY LOSSES RELATED TO MATERIAL FIRST IGNITED 1982

Property Classification	BUILDING MATERIALS		FURNISHINGS		CLOTHING, TEXTILES		WOOD, PAPER PRODUCTS	
	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses
Assembly	23	2,253,390	6	54,969	7	889	49	2,236,863
Institutional	0	—	23	81,243	10	2,169	13	24,007
Residential	179	3,176,554	635	4,476,291	156	1,844,268	304	3,939,550
Business	5	41,501	5	70,810	3	331	14	772,103
Mercantile	16	714,407	3	39,693	8	135,649	20	116,501
Manufacturing	6	584,606	0	—	1	2,500	27	1,284,033
Storage	67	663,761	19	308,692	6	20,580	51	3,843,766
Special	55	809,926	203	225,577	85	142,658	453	923,702
Miscellaneous	55	922,156	4	11,862	7	15,142	75	330,835
TOTAL	406	9,166,301	898	5,269,137	283	2,164,186	1,006	13,471,360

Property Classification	FLAMMABLE LIQUIDS		FLAMMABLE GASES		CHEMICALS		AGRICULTURAL PRODUCTS	
	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses	Number of Fires	Losses
Assembly	44	1,443,600	9	230,118	10	202,627	5	403,880
Institutional	3	33,001	2	1,100	4	1,551	5	1,603
Residential	796	5,381,948	107	1,806,416	67	272,938	63	852,115
Business	5	199,820	5	29,600	1	20	1	25,000
Mercantile	42	894,034	7	348,541	7	363,310	7	15,152
Manufacturing	25	1,865,862	13	21,262,101	6	11,501	13	573,166
Storage	68	2,586,286	29	1,125,176	5	4,900	73	2,001,479
Special	1,421	8,177,025	72	823,344	83	403,572	1,091	869,162
Miscellaneous	28	1,662,385	35	9,337,933	8	598,213	207	959,336
TOTAL	2,432	22,243,961	279	34,964,329	191	1,858,632	1,465	5,700,893

Property Classification	MISCELLANEOUS		TOTAL		Commentary: When identified, the materials most commonly first ignited were flammable liquids (21%). Flammable gases were the materials first ignited in fires that resulted in 21% of the losses.
	Number of Fires	Losses	Number of Fires	Losses	
Assembly	73	5,713,812	226	12,540,148	
Institutional	25	7,928	85	152,602	
Residential	1,238	15,216,868	3,545	36,966,948	
Business	30	1,519,365	69	2,658,550	
Mercantile	96	8,275,704	206	10,902,991	
Manufacturing	29	2,435,789	120	28,019,558	
Storage	215	8,488,446	533	19,043,086	
Special	2,903	10,260,458	6,366	22,635,424	
Miscellaneous	255	16,476,076	674	30,313,938	
TOTAL	4,864	68,394,446	11,824	163,233,245	

MUNICIPAL FIRE LOSS STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1982

MUNICIPALITY	1982					10 YEAR TOTAL		10 YEAR AVERAGE	
	POPULATION	FIRE COUNT	AMOUNT OF LOSS	FIRE RATE	PER CAPITA LOSS	FIRE COUNT	AMOUNT OF LOSS	FIRE RATE	PER CAPITA LOSS
CNTY 1, GRANDE PRAIRIE	12,078	111	1,097,698	9.1	90.88	992	8,755,079	8.2	72.48
BEAVER LODGE	1,937	4	11,667	2.0	6.02	52	337,958	2.6	17.44
HYTHE	681	3	2,372	4.4	3.48	18	128,944	2.6	18.93
SEXSMITH	1,184	5	1,056,494	4.2	892.30	57	1,231,645	4.8	104.02
WEMBLEY	1,209	3	93,800	2.4	77.58	17	218,354	1.4	18.06
TOTAL	17,089	126	2,262,031	7.3	132.36	1,136	10,671,980	6.6	62.44
CNTY 2, VULCAN	3,715	15	210,849	4.0	56.75	169	1,363,265	4.5	36.69
VULCAN	1,474	3	6,100	2.0	4.13	26	403,001	1.7	27.34
ARROWWOOD	151	—	—	—	—	4	1,609	2.6	1.06
CARMANGAY	277	2	22,031	7.2	79.53	10	32,669	3.6	11.79
CHAMPION	357	1	700	2.8	1.96	7	16,794	1.9	4.70
LOMOND	204	—	—	—	—	6	28,991	2.9	14.21
MILO	119	1	400	8.4	3.36	5	13,011	4.2	10.93
TOTAL	6,297	22	240,080	3.4	38.12	227	1,859,340	3.6	29.52
CNTY 3, PONOKA	7,536	57	616,743	7.5	81.83	439	2,805,609	5.8	37.22
PONOKA	5,221	15	67,710	2.8	12.96	162	2,525,950	3.1	48.38
RIMBEY	1,880	2	73,130	1.0	38.89	52	119,469	2.7	6.35
TOTAL	14,637	74	757,583	5.0	51.75	653	5,451,028	4.4	37.24
CNTY 4, NEWELL	6,199	37	1,216,583	5.9	196.25	409	44,210,764	6.5	713.19
BROOKS	8,060	29	389,363	3.5	48.30	200	2,042,077	2.4	25.33
BASSANO	1,200	5	22,379	4.1	18.64	35	184,167	2.9	15.34
DUCHESSE	429	4	75,626	9.3	176.28	14	103,771	3.2	24.18
ROSEMARY	328	1	2,694	3.0	8.21	6	9,339	1.8	2.84
TILLEY	367	4	186,139	10.8	507.19	9	210,241	2.4	57.28
TOTAL	16,583	80	1,892,784	4.8	114.14	673	46,760,359	4.0	281.97
CNTY 5, WARNER	3,460	13	85,723	3.7	24.77	191	1,324,446	5.5	38.27
WARNER	477	1	1,200	2.0	2.51	25	243,057	5.2	50.95
MILK RIVER	894	3	25,070	3.3	28.04	29	157,763	3.2	17.64
RAYMOND	2,837	9	220,172	3.1	77.60	89	527,707	3.1	18.60
COUTTS	400	1	70,750	2.5	176.87	16	164,844	4.0	41.11
STIRLING	688	2	72,959	2.9	106.04	15	140,367	2.1	20.40
TOTAL	8,756	29	475,874	3.3	54.34	365	2,558,184	4.1	29.21
CNTY 6, STETTTLER	5,092	54	1,910,857	10.6	375.26	330	4,811,493	6.4	94.49
STETTTLER	5,136	27	323,281	5.2	62.94	193	1,029,925	3.7	20.05
BIG VALLEY	360	2	1,053	5.5	2.92	12	53,377	3.3	14.82
BOTHA	172	1	2,037	5.8	11.84	7	26,990	4.0	15.69
DONALDA	266	1	500	3.7	1.87	5	40,445	1.8	15.20
GADSBY	49	—	—	—	—	4	45,603	8.1	93.06
ROCHON SANDS	51	—	—	—	—	5	13,207	9.8	25.89
WHITE SANDS	2	—	—	—	—	—	—	—	—
TOTAL	11,128	85	2,237,728	7.6	201.08	556	6,021,040	4.9	54.10
CNTY 7, THORHILD	3,323	29	952,689	8.7	286.69	132	1,621,535	3.9	48.79
THORHILD	566	1	3,000	1.7	5.30	13	65,725	2.2	11.61
RADWAY	194	—	—	—	—	2	2,330	1.0	1.20
TOTAL	4,083	30	955,689	7.3	234.06	147	1,689,590	3.6	41.38
CNTY 8, FORTY MILE	3,451	10	19,200	2.8	5.56	140	911,665	4.0	26.41
FOREMOST	576	2	1,699	3.4	2.94	36	220,483	6.2	38.27
BOW ISLAND	1,427	3	653	2.1	.45	41	176,372	2.8	12.35
BURDETT	238	2	130,000	8.4	546.21	5	131,793	2.1	55.37
TOTAL	5,692	17	151,552	2.9	26.62	222	1,440,313	3.9	25.30
CNTY 9, BEAVER	5,347	29	246,309	5.4	46.06	249	1,538,332	4.6	28.77
RYLEY	520	—	—	—	—	3	1,720	.5	.33
TOFIELD	1,560	6	159,657	3.8	102.34	34	434,120	2.1	27.82
VIKING	1,238	2	26,456	1.6	21.36	36	306,718	2.9	24.77
HOLDEN	430	—	—	—	—	6	4,081	1.3	.94
TOTAL	9,095	37	432,422	4.0	47.54	328	2,284,971	3.6	25.12
CNTY 10, WETASKIWIN	9,026	69	545,368	7.6	60.42	439	3,192,615	4.8	35.37
CRYSTAL SPRINGS	45	—	—	—	—	—	—	—	—
MA-ME-O BEACH	82	5	68,135	60.9	830.91	16	242,568	19.5	295.81
MILLET	1,087	5	42,329	4.5	38.94	25	72,999	2.2	6.71
SILVER BEACH	26	—	—	—	—	—	—	—	—

MUNICIPAL FIRE LOSS STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1982

MUNICIPALITY	1982					10 YEAR TOTAL		10 YEAR AVERAGE	
	POPULATION	FIRE COUNT	AMOUNT OF LOSS	FIRE RATE	PER CAPITA LOSS	FIRE COUNT	AMOUNT OF LOSS	FIRE RATE	PER CAPITA LOSS
GRANDVIEW	38	—	—	—	—	1	1,332	2.6	.87
ARGENTIA BEACH	3	—	—	—	—	13	213,040	433.3	7,101.33
POPLAR BAY	38	—	—	—	—	—	—	—	—
TOTAL	10,345	79	655,832	7.6	63.39	494	3,721,554	4.7	35.97
CNTY 11, BARRHEAD	5,517	19	592,812	3.4	107.45	163	2,595,922	2.9	47.05
BARRHEAD	3,736	9	22,484	2.4	6.01	76	597,416	2.0	15.99
TOTAL	9,253	28	615,296	3.0	66.49	239	3,193,338	2.5	34.51
CNTY 12, ATHABASCA	5,974	25	383,016	4.1	64.11	283	2,185,788	4.7	36.58
ATHABASCA	1,731	4	24,070	2.3	13.90	65	2,154,209	3.7	124.44
BOYLE	668	1	597	1.4	.89	17	76,281	2.5	11.41
ISLAND LAKE	43	—	—	—	—	—	—	—	—
SUNSET BEACH	24	—	—	—	—	1	2,000	4.1	8.33
MEWATHA BEACH	27	—	—	—	—	1	1	3.7	—
TOTAL	8,467	30	407,683	3.5	48.14	367	4,418,279	4.3	52.18
CNTY 13, SMOKY LAKE	2,910	21	91,950	7.2	31.59	178	1,563,070	6.1	53.71
SMOKY LAKE	1,165	2	3,360	1.7	2.88	29	112,234	2.4	9.63
VILNA	345	—	—	—	—	11	59,825	3.1	17.34
WARSPITE	96	—	—	—	—	2	8,023	2.0	8.35
WASKATENAU	281	—	—	—	—	48	9,384	17.0	3.33
TOTAL	4,797	23	95,310	4.7	19.86	268	1,752,536	5.5	36.53
CNTY 14, LACOMBE	8,783	80	993,546	9.1	113.12	604	5,438,182	6.8	61.91
LACOMBE	5,723	21	487,967	3.6	85.26	152	1,367,567	2.6	23.89
ALIX	837	3	84,800	3.5	101.31	17	1,779,116	2.0	212.55
BENTLEY	825	2	3,300	2.4	4.00	29	573,232	3.5	69.48
BLACKFALDS	1,488	3	1,052	2.0	.70	40	57,775	2.6	3.88
CLIVE	364	1	500	2.7	1.37	13	31,848	3.5	8.74
ECKVILLE	872	2	1,534	2.2	1.75	34	168,493	3.8	19.32
GULL LAKE	80	—	—	—	—	14	198,844	17.5	248.55
MIRROR	552	2	2,900	3.6	5.25	23	146,068	4.1	26.46
BIRCHCLIFF	43	—	—	—	—	1	1,100	2.3	2.55
HALF MOON BAY	31	—	—	—	—	—	—	—	—
TOTAL	19,598	114	1,575,599	5.8	80.39	927	9,762,225	4.7	49.81
CNTY 16, WHEATLAND	5,513	84	758,136	15.2	137.51	437	4,271,649	7.9	77.48
STRATHMORE	3,199	17	179,708	5.3	56.17	74	1,340,200	2.3	41.89
GLEICHEN	381	2	3,994	5.2	10.48	14	68,388	3.6	17.94
CLUNY	111	1	1	9.0	—	15	17,647	13.5	15.89
HUSSAR	179	—	—	—	—	9	1,794,637	5.0	1,002.59
ROCKYFORD	329	1	2,000	3.0	6.07	14	464,028	4.2	141.04
STANDARD	379	—	—	—	—	6	6,768	1.5	1.78
TOTAL	10,091	105	943,839	10.4	93.53	569	7,963,317	5.6	78.91
CNTY 17, MOUNTAIN VIEW	8,832	84	1,402,673	9.5	158.81	572	7,474,937	6.4	84.63
DIDSBURY	3,256	15	80,463	4.6	24.71	97	827,292	2.9	25.40
OLDS	4,888	7	86,176	1.4	17.63	142	4,087,528	2.9	83.62
SUNDRE	1,750	8	21,793	4.5	12.45	54	239,918	3.0	13.70
CARSTAIRS	1,725	3	10,340	1.7	5.99	48	354,348	2.7	20.54
CREMONA	402	3	22,491	7.4	55.94	18	131,778	4.4	32.78
TOTAL	20,853	120	1,623,936	5.7	77.87	931	13,115,801	4.4	62.89
CNTY 18, PAINT EARTH	2,495	22	111,755	8.8	44.79	147	953,122	5.8	38.20
CASTOR	1,123	3	4,545	2.6	4.04	24	73,406	2.1	6.53
CORONATION	1,268	8	1,363,021	6.3	1,074.93	53	2,061,019	4.1	162.54
HALKIRK	156	1	450	6.4	2.88	5	2,321	3.2	1.48
TOTAL	5,042	34	1,479,771	6.7	293.48	229	3,089,868	4.5	61.28
CNTY 19, ST. PAUL	6,101	33	140,258	5.4	22.98	372	2,788,845	6.0	45.71
ST. PAUL	4,884	15	1,289,995	3.0	264.12	163	3,084,449	3.3	63.15
ELK POINT	1,051	1	2,560	.9	2.43	27	173,081	2.5	16.46
TOTAL	12,036	49	1,432,813	4.0	119.04	562	6,046,375	4.6	50.23
CNTY 20, STRATHCONA	48,024	303	1,673,849	6.3	34.85	2,687	17,057,676	5.5	35.51
FT. SASKATCHEWAN	12,455	20	111,117	1.6	8.92	279	9,246,803	2.2	74.24
TOTAL	60,479	323	1,784,966	5.3	29.51	2,966	26,304,479	4.9	43.49
CNTY 21, TWO HILLS	3,380	35	121,390	10.3	35.91	157	1,030,994	4.6	30.50
TWO HILLS	1,330	3	3,631	2.2	2.73	19	33,477	1.4	2.51

MUNICIPAL FIRE LOSS STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1982

MUNICIPALITY	1982					10 YEAR TOTAL		10 YEAR AVERAGE	
	POPULATION	FIRE COUNT	AMOUNT OF LOSS	FIRE RATE	PER CAPITA LOSS	FIRE COUNT	AMOUNT OF LOSS	FIRE RATE	PER CAPITA LOSS
DERWENT	142	—	—	—	—	3	14,290	2.1	10.06
MYRNAM	397	4	1,000	10.0	2.51	9	60,398	2.2	15.21
WILLINGDON	375	2	3,471	5.3	9.25	11	77,370	2.9	20.63
HAIRY HILL	72	—	—	—	—	—	—	—	—
TOTAL	5,696	44	129,492	7.7	22.73	199	1,216,529	3.4	21.35
CNTY 22, CAMROSE	7,564	41	1,134,063	5.4	149.92	449	2,658,551	5.9	35.14
BASHAW	875	1	12,577	1.1	14.37	27	114,044	3.0	13.03
BAWLf	351	5	1,530,468	14.2	4,360.30	17	1,641,129	4.8	467.55
BITTERN LAKE	153	—	—	—	—	3	33,815	1.9	22.10
EDBERG	150	—	—	—	—	5	72,108	3.3	48.07
FERINTOSH	155	1	4,500	6.4	29.03	3	6,001	1.9	3.87
HAY LAKES	317	1	500	3.1	1.57	11	21,219	3.4	6.69
NEW NORWAY	282	—	—	—	—	7	1,687	2.4	.59
ROSALIND	197	1	1,107	5.0	5.61	1	1,107	.5	.56
TOTAL	10,044	50	2,683,215	4.9	267.14	523	4,549,661	5.2	45.29
CNTY 23, RED DEER	13,664	97	964,638	7.0	70.59	884	5,142,197	6.4	37.63
INNISFAIL	5,444	14	17,359	2.5	3.18	130	1,466,152	2.3	26.93
SYLVAN LAKE	3,779	15	45,185	3.9	11.95	106	725,004	2.8	19.18
BOWDEN	1,021	6	9,709	5.8	9.50	33	560,008	3.2	54.84
DELBURNE	555	2	926	3.6	1.66	15	34,525	2.7	6.22
ELNORA	243	1	5,000	4.1	20.57	6	56,516	2.4	23.25
PENHOLD	1,518	9	50,408	5.9	33.20	36	1,018,534	2.3	67.09
NORGLNWOLD	84	—	—	—	—	3	166,600	3.5	198.33
TOTAL	26,308	144	1,093,225	5.4	41.55	1,213	9,169,536	4.6	34.85
CNTY 24, VERMILION RIVER	7,533	71	683,654	9.4	90.75	487	3,292,582	6.4	43.70
KITSCOTY	505	3	2,610	5.9	5.16	10	5,939	1.9	1.17
VERMILION	3,727	20	156,686	5.3	42.04	102	1,235,995	2.7	33.16
DEWBERRY	163	1	540,000	6.1	3,312.88	4	630,858	2.4	387.02
MARWAYNE	500	4	1,325	8.0	2.65	16	910,271	3.2	182.05
PARADISE VALLEY	166	—	—	—	—	2	26,981	1.2	16.25
TOTAL	12,594	99	1,384,275	7.8	109.91	621	6,102,626	4.9	48.45
CNTY 25, LEDUC	13,258	93	1,376,350	7.0	103.81	715	8,126,790	5.3	61.29
LEDUC	12,471	40	347,116	3.2	27.83	287	2,349,996	2.3	18.84
CALMAR	1,061	7	46,521	6.5	43.84	29	218,623	2.7	20.60
DEVON	3,931	4	8,198	1.0	2.08	57	718,240	1.4	18.27
BRETON	566	1	8,000	1.7	14.13	11	54,153	1.9	9.56
NEW SAREPTA	461	2	3,826	4.3	8.29	11	98,619	2.3	21.39
THORSBY	737	2	3,013	2.7	4.08	29	707,771	3.9	96.03
WARBURG	541	—	—	—	—	15	361,748	2.7	66.86
ITASKA BEACH	7	2	176,614	285.7	25,230.57	2	176,614	28.5	2,523.05
GOLDEN DAYS	33	1	195	30.3	5.90	1	195	3.0	.59
SUNDANCE BEACH	17	—	—	—	—	1	10,651	5.8	62.65
BEAUMONT	2,927	6	21,153	2.0	7.22	22	93,143	.7	3.18
TOTAL	36,010	158	1,990,986	4.3	55.28	1,180	12,916,543	3.2	35.86
CNTY 26, LETHBRIDGE	8,779	68	553,753	7.7	63.07	628	3,789,299	7.1	43.16
COALDALE	4,597	7	13,302	1.5	2.89	115	966,923	2.5	21.03
PICTURE BUTTE	1,404	2	2,599	1.4	1.85	35	107,991	2.4	7.69
BARONS	323	—	—	—	—	10	29,085	3.0	9.00
NOBLEFORD	555	3	3,100	5.4	5.58	13	21,355	2.3	3.84
COALHURST	1,111	5	16,732	4.5	15.06	18	71,820	1.6	6.46
TOTAL	16,769	85	589,486	5.0	35.15	819	4,986,473	4.8	29.73
CNTY 27, MINBURN	4,041	22	67,416	5.4	16.68	273	973,012	6.7	24.07
MINBURN	146	—	—	—	—	3	8,251	2.0	5.65
MANNVILLE	788	2	61,262	2.5	77.74	14	107,244	1.7	13.60
VEGREVILLE	5,251	16	250,945	3.0	47.78	122	509,391	2.3	9.70
INNISFREE	255	—	—	—	—	3	2,916	1.1	1.14
LAVOY	120	—	—	—	—	5	4,753	4.1	3.96
TOTAL	10,601	40	379,623	3.7	35.81	420	1,605,567	3.9	15.14
CNTY 28, LAC STE. ANNE	7,614	60	892,568	7.8	117.22	343	2,882,490	4.5	37.85
ONOWAY	669	4	19,630	5.9	29.34	24	145,977	3.5	21.82
MAYERTHORPE	1,475	1	50	.6	.03	30	610,551	2.0	41.39

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MUNICIPALITY	1982					10 YEAR TOTAL		10 YEAR AVERAGE	
	POPULATION	FIRE COUNT	AMOUNT OF LOSS	FIRE RATE	PER CAPITA LOSS	FIRE COUNT	AMOUNT OF LOSS	FIRE RATE	PER CAPITA LOSS
ALBERTA BEACH	461	1	250	2.1	.54	36	180,660	7.8	39.18
CASTLE ISLAND	5	—	—	—	—	—	—	—	—
SUNSET POINT	85	—	—	—	—	2	2,200	2.3	2.58
SANGUDO	424	2	34,306	4.7	80.91	13	52,513	3.0	12.38
WEST COVE	46	—	—	—	—	4	111,119	8.6	241.56
YELLOWSTONE	73	—	—	—	—	1	1,000	1.3	1.36
ROSS HAVEN	59	—	—	—	—	1	3,625	1.6	6.14
VAL QUENTIN	107	—	—	—	—	2	2,489	1.8	2.32
SILVER SANDS	72	—	—	—	—	3	4,051	4.1	5.62
NAKAMUN PARK	8	—	—	—	—	—	—	—	—
SOUTH VIEW	33	—	—	—	—	—	—	—	—
TOTAL	11,131	68	946,804	6.1	85.06	459	3,996,675	4.1	35.90
CNTY 29, FLAGSTAFF	4,507	51	214,909	11.3	47.68	401	1,857,376	8.8	41.21
SEDGEWICK	879	1	7,000	1.1	7.96	16	75,237	1.8	8.55
ALLIANCE	208	—	—	—	—	11	12,862	5.2	6.18
DAYSLAND	691	—	—	—	—	21	25,853	3.0	3.74
HARDISTY	680	5	44,727	7.3	65.77	33	116,120	4.8	17.07
FORESTBURG	968	3	23,955	3.0	24.74	21	42,890	2.1	4.43
GALAHAD	166	—	—	—	—	5	21,049	3.0	12.68
HEISLER	212	—	—	—	—	6	6,682	2.8	3.15
KILLAM	1,005	5	118,116	4.9	117.52	28	386,631	2.7	38.47
LOUGHEED	261	—	—	—	—	7	18,035	2.6	6.90
STROME	281	6	313,864	21.3	1,116.95	16	457,275	5.6	162.73
TOTAL	9,858	71	722,571	7.2	73.29	565	3,020,010	5.7	30.63
CNTY 30, LAMONT	4,687	30	220,913	6.4	47.13	249	1,713,137	5.3	36.55
LAMONT	1,644	2	72,264	1.2	43.95	17	310,065	1.0	18.86
CHIPMAN	266	—	—	—	—	7	118,521	2.6	44.55
MUNDARE	645	3	4,799	4.6	7.44	9	28,678	1.3	4.44
ANDREW	569	5	559,171	8.7	982.72	26	701,505	4.5	123.28
BRUDERHEIM	1,238	6	26,083	4.8	21.06	23	206,405	1.8	16.67
TOTAL	9,049	46	883,230	5.0	97.60	331	3,078,311	3.6	34.01
CNTY 31, PARKLAND	23,626	166	2,151,136	7.0	91.04	1,468	13,207,971	6.2	55.90
STONY PLAIN	5,105	8	18,031	1.5	3.53	59	200,396	1.1	3.92
BETULA BEACH	6	—	—	—	—	1	744	16.6	12.40
EDMONTON BEACH	329	1	25,000	3.0	75.98	9	135,918	2.7	41.31
ENTWISTLE	468	2	62,160	4.2	132.82	6	101,065	1.2	21.59
KAPASWIN	2	—	—	—	—	4	44,603	200.0	2,230.15
LAKEVIEW	14	—	—	—	—	—	—	—	—
POINT ALISON	2	—	—	—	—	2	6,050	100.0	302.50
SEBA BEACH	126	—	—	—	—	12	61,495	9.5	48.80
SPRUCE GROVE	10,784	52	629,023	4.8	58.32	320	1,590,048	2.9	14.74
DRAYTON VALLEY	4,867	18	77,009	3.6	15.82	172	636,567	3.5	13.07
WABAMUN	662	1	7,600	1.5	11.48	12	53,078	1.8	8.01
TOTAL	45,991	248	2,969,959	5.3	64.57	2,065	16,037,935	4.4	34.87
M.D. 6, CARDSTON	4,292	29	203,244	6.7	47.35	252	2,077,612	5.8	48.40
CARDSTON	3,267	17	162,148	5.2	49.63	102	632,294	3.1	19.35
MAGRATH	1,576	10	56,151	6.3	35.62	57	195,305	3.6	12.39
GLENWOOD	259	1	490	3.8	1.89	10	12,824	3.8	4.95
HILLSPRING	200	—	—	—	—	3	19,018	1.5	9.50
TOTAL	9,594	57	422,033	5.9	43.98	424	2,937,053	4.4	30.61
M.D. 9, PINCHER CREEK	2,970	18	96,671	6.0	32.54	162	2,673,561	5.4	90.01
PINCHER CREEK	3,757	12	30,367	3.1	8.08	96	809,483	2.5	21.54
COWLEY	304	—	—	—	—	6	7,302	1.9	2.40
TOTAL	7,031	30	127,038	4.2	18.06	264	3,490,346	3.7	49.64
M.D. 14, TABER	5,637	40	206,144	7.0	36.56	415	2,413,285	7.3	42.81
TABER	5,988	16	3,047,780	2.6	508.98	205	4,818,051	3.4	80.46
VAUXHALL	1,048	—	—	—	—	23	400,934	2.1	38.25
GRASSY LAKE	211	2	7,633	9.4	36.17	12	35,436	5.6	16.79
BARNWELL	359	—	—	—	—	—	—	—	—
TOTAL	13,243	58	3,261,557	4.3	246.28	655	7,667,706	4.9	57.90
M.D. 26, WILLOW CREEK	4,534	58	249,937	12.7	55.12	375	1,367,966	8.2	30.17

MUNICIPAL FIRE LOSS STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1982

MUNICIPALITY	1982					10 YEAR TOTAL		10 YEAR AVERAGE	
	POPULATION	FIRE COUNT	AMOUNT OF LOSS	FIRE RATE	PER CAPITA LOSS	FIRE COUNT	AMOUNT OF LOSS	FIRE RATE	PER CAPITA LOSS
STAVELY	548	4	468,240	7.2	854.45	8	469,495	1.4	85.67
NANTON	1,647	6	79,484	3.6	48.25	41	649,424	2.4	39.43
CLARESHOLM	3,493	20	175,661	5.7	50.28	160	1,574,949	4.5	45.08
FT. MACLEOD	3,139	6	32,402	1.9	10.32	103	806,455	3.2	25.69
GRANUM	399	5	2,448,713	12.5	6,137.12	21	2,514,934	5.2	630.30
TOTAL	13,760	99	3,454,437	7.1	251.04	708	7,383,223	5.1	53.65
M.D. 31, Foothills	8,725	91	1,788,779	10.4	205.01	498	4,682,130	5.7	53.66
HIGH RIVER	4,941	12	135,581	2.4	27.43	106	1,336,305	2.1	27.04
BLACK DIAMOND	1,545	7	5,961	4.5	3.85	24	183,088	1.5	11.85
OKOTOKS	4,521	11	87,770	2.4	19.41	75	369,736	1.6	8.17
BLACKIE	343	—	—	—	—	3	39,406	.8	11.48
CAYLEY	194	—	—	—	—	3	37,868	1.5	19.51
TURNER VALLEY	1,337	4	86,514	2.9	64.70	29	466,632	2.1	34.90
LONGVIEW	312	1	7,801	3.2	25.00	2	70,301	.6	22.53
TOTAL	21,918	126	2,112,406	5.7	96.37	740	7,185,466	3.3	32.78
M.D. 34, Acadia	604	2	3,893	3.3	6.44	14	129,675	2.3	21.46
EMPRESS	200	—	—	—	—	6	8,769	3.0	4.38
TOTAL	804	2	3,893	2.4	4.84	20	138,444	2.4	17.21
M.D. 44, Rocky View	17,362	239	1,358,792	13.7	78.26	1,554	11,149,801	8.9	64.21
AIRDRIE	9,981	34	326,757	3.4	32.73	90	878,786	.9	8.80
BEISEKER	637	1	130,000	1.5	204.08	22	203,971	3.4	32.02
COCHRANE	3,851	20	338,609	5.1	87.92	79	887,088	2.0	23.03
CROSSFIELD	1,330	1	9,000	.7	6.76	19	358,414	1.4	26.94
IRRICANA	623	1	20	1.6	.03	10	24,383	1.6	3.91
CHESTERMERE LK.	541	2	10,650	3.6	19.68	8	75,111	1.4	13.88
TOTAL	34,325	298	2,173,828	8.6	63.33	1,782	13,577,554	5.1	39.55
M.D. 47, Starland	2,068	16	67,012	7.7	32.40	136	873,557	6.5	42.24
MORRIN	245	1	4,283	4.0	17.48	9	188,553	3.6	76.96
DELIA	211	—	—	—	—	7	14,057	3.3	6.66
MUNSON	148	1	1,909	6.7	12.89	2	1,949	1.3	1.31
RUMSEY	89	1	2,190	11.2	24.60	6	25,543	6.7	28.70
TOTAL	2,761	19	75,394	6.8	27.30	160	1,103,659	5.7	39.97
M.D. 48, Kneehill	5,761	37	420,089	6.4	72.91	292	2,539,051	5.0	44.07
THREE HILLS	1,879	15	33,782	7.9	17.97	71	123,340	3.7	6.56
ACME	492	1	306	2.0	.62	8	188,714	1.6	38.35
TROCHU	880	3	10,667	3.4	12.12	19	381,268	2.1	43.32
CARBON	434	—	—	—	—	6	4,374	1.3	1.00
LINDEN	426	2	261	4.6	.61	7	1,313	1.6	.30
TORRINGTON	230	3	1,064	13.0	4.62	13	54,468	5.6	23.68
TOTAL	10,102	61	466,169	6.0	46.14	416	3,292,528	4.1	32.59
M.D. 52, Provost	2,611	15	44,285	5.7	16.96	275	1,904,624	10.5	72.94
PROVOST	1,756	6	15,574	3.4	8.86	70	1,406,849	3.9	80.11
AMISK	200	—	—	—	—	3	9,000	1.5	4.50
CZAR	167	—	—	—	—	7	11,886	4.1	7.11
HUGHENDEN	251	—	—	—	—	7	42,221	2.7	16.82
TOTAL	4,985	21	59,859	4.2	12.00	362	3,374,580	7.2	67.69
M.D. 61, Wainwright	3,837	35	224,815	9.1	58.59	300	1,562,956	7.8	40.73
WAINWRIGHT	4,266	19	76,364	4.4	17.90	150	864,843	3.5	20.27
IRMA	474	2	39,850	4.2	84.07	21	91,507	4.4	19.30
CHAUVIN	316	3	7,900	9.4	25.00	11	830,789	3.4	262.90
EDGERTON	384	5	18,876	13.0	49.15	18	173,109	4.6	45.08
TOTAL	9,277	64	367,805	6.8	39.64	500	3,523,204	5.3	37.97
M.D. 87, Bonnyville	9,407	43	470,401	4.5	50.00	370	3,008,981	3.9	31.98
BONNYVILLE	4,454	14	148,340	3.1	33.30	116	1,353,053	2.6	30.37
COLD LAKE	2,058	5	37,596	2.4	18.26	71	289,587	3.4	14.07
GRAND CENTRE	3,146	13	242,049	4.1	76.93	120	1,701,866	3.8	54.09
BONNYVILLE BCH.	44	—	—	—	—	2	20,180	4.5	45.86
GLENDON	455	1	400	2.1	.87	13	43,610	2.8	9.58
PELICAN NARROWS	35	—	—	—	—	—	—	—	—
TOTAL	19,599	76	898,786	3.8	45.85	692	6,417,277	3.5	32.74
M.D. 90, Sturgeon	13,682	82	1,311,864	5.9	95.88	995	11,999,409	7.2	87.70

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MUNICIPALITY	1982					10 YEAR TOTAL		10 YEAR AVERAGE	
	POPULATION	FIRE COUNT	AMOUNT OF LOSS	FIRE RATE	PER CAPITA LOSS	FIRE COUNT	AMOUNT OF LOSS	FIRE RATE	PER CAPITA LOSS
MORINVILLE	4,943	5	18,433	1.0	3.72	75	581,226	1.5	11.75
GIBBONS	2,592	3	53,185	1.1	20.51	32	188,823	1.2	7.28
SANDY BEACH	78	—	—	—	—	1	22,800	1.2	28.20
BON ACCORD	1,425	2	1,733	1.4	1.21	18	108,625	1.2	7.62
LEGAL	1,042	5	52,656	4.7	50.53	23	113,695	2.2	10.91
REDWATER	2,174	7	203,193	3.2	93.46	36	344,747	1.6	15.85
TOTAL	25,936	104	1,641,064	4.0	63.27	1,180	13,358,525	4.5	51.50
M.D. 92, WESTLOCK	7,059	34	1,545,950	4.8	219.00	280	3,850,064	3.9	54.54
WESTLOCK	4,432	12	97,627	2.7	22.02	80	1,156,055	1.8	26.08
CLYDE	364	4	39,400	10.9	108.24	16	82,219	4.3	22.58
TOTAL	11,855	50	1,682,977	4.2	141.96	376	5,088,338	3.1	42.92
M.D. 130, SMOKY RIVER	2,858	21	478,999	7.3	167.59	225	1,837,848	7.8	64.30
FALHER	1,204	3	48,300	2.4	40.11	41	555,470	3.4	46.13
GIROUXVILLE	325	1	380	3.0	1.16	16	486,499	4.9	149.69
MCLENNAN	1,176	2	2,686	1.7	2.28	47	846,016	3.9	71.94
DONNELLY	362	4	45,002	11.0	124.31	35	286,258	9.6	79.07
TOTAL	5,925	31	575,367	5.2	97.10	364	4,012,091	6.1	67.71
M.D. 133, SPIRIT RIVER	891	8	42,144	8.9	47.29	114	474,233	12.7	53.22
SPIRIT RIVER	1,104	2	1,100	1.8	.99	40	153,135	3.6	13.87
RYCROFT	649	3	27,916	4.6	43.01	19	596,980	2.9	91.98
TOTAL	2,644	13	71,160	4.9	26.91	173	1,224,348	6.5	46.30
M.D. 135, PEACE RIVER	1,520	24	47,180	15.7	31.03	204	1,480,922	13.4	97.42
BERWYN	632	2	12,500	3.1	19.77	6	139,336	.9	22.04
GRIMSHAW	2,488	9	130,584	3.6	52.48	71	527,438	2.8	21.19
PEACE RIVER	6,043	45	110,960	7.4	18.36	263	2,490,061	4.3	41.20
TOTAL	10,683	80	301,224	7.4	28.19	544	4,637,757	5.0	43.41
M.D. 136, FAIRVIEW	1,889	16	201,552	8.4	106.69	154	1,309,958	8.1	69.34
FAIRVIEW	2,869	13	34,510	4.5	12.02	106	3,770,824	3.6	131.43
TOTAL	4,758	29	236,062	6.0	49.61	260	5,080,782	5.4	106.78
I.D. #1	5,029	62	451,931	12.3	89.86	528	5,293,319	10.4	105.25
IRVINE	360	1	500	2.7	1.38	10	85,215	2.7	23.67
REDCLIFF	3,814	21	105,553	5.5	27.67	147	593,533	3.8	15.56
TOTAL	9,203	84	557,984	9.1	60.63	685	5,972,067	7.4	64.89
I.D. #4	176	2	40,660	11.3	231.02	11	70,626	6.2	40.12
I.D. #6	119	5	15,301	42.0	128.57	56	618,371	47.0	519.63
CROWSNEST PASS	7,577	14	569,452	1.8	75.15	231	2,508,530	3.0	33.10
TOTAL	7,696	19	584,753	2.4	75.98	287	3,126,901	3.7	40.63
I.D. #7	1,258	8	24,673	6.3	19.61	98	1,540,851	7.7	122.48
I.D. #8	1,268	5	37,055	3.9	29.22	111	1,842,581	8.7	145.31
GHOST LAKE	42	—	—	—	—	4	9,207	9.5	21.92
CANMORE	3,689	12	225,052	3.2	61.00	91	1,018,103	2.4	27.59
TOTAL	4,999	17	262,107	3.4	52.43	206	2,869,891	4.1	57.40
I.D. #9	3,849	10	142,886	2.5	37.12	113	1,400,079	2.9	36.37
BANFF	3,410	11	68,725	3.2	20.15	154	2,926,143	4.5	85.81
TOTAL	7,259	21	211,611	2.8	29.15	267	4,326,222	3.6	59.59
I.D. #10	9,201	54	428,103	5.8	46.52	442	5,653,027	4.8	61.43
ROCKY MT. HOUSE	4,735	20	103,446	4.2	21.84	135	1,334,705	2.8	28.18
CAROLINE	431	—	—	—	—	7	32,203	1.6	7.47
TOTAL	14,367	74	531,549	5.1	36.99	584	7,019,935	4.0	48.86
I.D. #12	3,420	9	82,328	2.6	24.07	69	656,267	2.0	19.18
JASPER	3,602	11	47,575	3.0	13.20	110	2,890,336	3.0	80.24
TOTAL	7,022	20	129,903	2.8	18.49	179	3,546,603	2.5	50.50
I.D. #13	36	1	290	27.7	8.05	5	11,443	13.8	31.78
I.D. #14	9,238	69	8,838,094	7.4	956.71	573	14,054,699	6.2	152.14
WILDWOOD	432	—	—	—	—	9	69,860	2.0	16.17
EVANSBURG	784	1	1,500	1.2	1.91	15	89,800	1.9	11.45
EDSON	6,291	13	59,267	2.0	9.42	172	1,283,031	2.7	20.39
HINTON	8,819	51	631,516	5.7	71.60	303	3,487,766	3.4	39.54
TOTAL	25,564	134	9,530,377	5.2	372.80	1,072	18,985,156	4.1	74.26
I.D. #15	2,670	17	219,088	6.3	82.05	215	4,551,291	8.0	170.46
WHITECOURT	5,408	36	182,353	6.6	33.71	257	2,112,489	4.7	39.06

MUNICIPAL FIRE LOSS STATISTICS FOR THE YEAR ENDING DECEMBER 31, 1982

MUNICIPALITY	1982					10 YEAR TOTAL		10 YEAR AVERAGE	
	POPULATION	FIRE COUNT	AMOUNT OF LOSS	FIRE RATE	PER CAPITA LOSS	FIRE COUNT	AMOUNT OF LOSS	FIRE RATE	PER CAPITA LOSS
FORT ASSINIBOINE	191	—	—	—	—	16	87,256	8.3	45.68
TOTAL	8,269	53	401,441	6.4	48.54	488	6,751,036	5.9	81.64
I.D. #16	5,350	68	1,385,268	12.7	258.92	491	17,047,406	9.1	318.64
VALLEYVIEW	2,061	9	185,301	4.3	89.90	70	599,573	3.3	29.09
FOX CREEK	1,978	4	65,449	2.0	33.08	43	1,298,860	2.1	65.66
GRANDE CACHE	4,624	3	32,502	.6	7.02	114	789,534	2.4	17.07
TOTAL	14,013	84	1,668,520	5.9	119.06	718	19,735,373	5.1	140.83
I.D. #17	11,699	90	1,801,454	7.6	153.98	800	13,537,321	6.8	115.71
HIGH PRAIRIE	2,506	8	1,703,156	3.1	679.63	112	6,441,937	4.4	257.06
SWAN HILLS	2,497	9	210,323	3.6	84.23	48	820,013	1.9	32.83
KINUSO	285	—	—	—	—	4	32,485	1.4	11.39
SLAVE LAKE	4,562	15	39,351	3.2	8.62	138	759,164	3.0	16.64
NAMPA	334	—	—	—	—	9	963,563	2.6	288.49
TOTAL	21,883	122	3,754,284	5.5	171.56	1,111	22,554,483	5.0	103.06
I.D. #18	9,605	103	19,260,660	10.7	2,005.27	751	53,153,112	7.8	553.39
LAC LA BICHE	2,069	9	326,600	4.3	157.85	82	677,036	3.9	32.72
PLAMONDON	271	1	774	3.6	2.85	4	1,070,553	1.4	395.03
TOTAL	11,945	113	19,588,034	9.4	1,639.85	837	54,900,701	7.0	459.61
I.D. #19	1,757	9	205,682	5.1	117.06	152	2,238,104	8.6	127.38
WANHAM	266	2	25,519	7.5	95.93	22	131,971	8.2	49.61
EAGLESHAM	207	—	—	—	—	3	10,363	1.4	5.00
TOTAL	2,230	11	231,201	4.9	103.67	177	2,380,438	7.9	106.74
I.D. #20	3,000	10	73,661	3.3	24.55	106	1,364,874	3.5	45.49
I.D. #21	2,936	18	148,326	6.1	50.51	142	1,652,028	4.8	56.26
HINES CREEK	575	4	149,445	6.9	259.90	25	791,170	4.3	137.59
TOTAL	3,511	22	297,771	6.2	84.81	167	2,443,198	4.7	69.58
I.D. #22	4,250	44	474,232	10.3	111.58	226	2,211,885	5.3	52.04
MANNING	1,262	3	29,089	2.3	23.04	34	285,147	2.6	22.59
TOTAL	5,512	47	503,321	8.5	91.31	260	2,497,032	4.7	45.30
I.D. #23	5,837	59	1,043,827	10.1	178.82	459	7,574,889	7.8	129.77
HIGH LEVEL	2,354	11	833,477	4.6	354.06	92	2,976,052	3.9	126.42
RAINBOW LAKE	739	5	863,042	6.7	1,167.85	16	1,056,029	2.1	142.89
TOTAL	8,930	75	2,740,346	8.3	306.86	567	11,606,970	6.3	129.97
I.D. #24	188	1	228,364	5.3	1,214.70	5	5,255,764	2.6	2,795.61
S.A. #1	40,850	109	1,538,729	2.6	37.66	689	7,949,021	1.6	19.45
S.A. #2	2,565	19	101,031	7.4	39.38	165	1,400,539	6.4	54.60
HANNA	2,828	8	226,563	2.8	80.11	78	755,659	2.7	26.72
TOTAL	5,393	27	327,594	5.0	60.74	243	2,156,198	4.5	39.98
S.A. #3	1,701	11	87,168	6.4	51.24	96	538,437	5.6	31.65
CEREAL	252	—	—	—	—	6	132,238	2.3	52.47
OYEN	1,002	6	43,296	5.9	43.20	28	214,179	2.7	21.37
YOUNGSTOWN	297	—	—	—	—	4	23,582	1.3	7.94
TOTAL	3,252	17	130,464	5.2	40.11	134	908,436	4.1	27.93
S.A. #4	1,776	11	61,666	6.1	34.72	94	1,148,800	5.2	64.68
VETERAN	318	—	—	—	—	13	1,877,654	4.0	590.45
CONSORT	632	—	—	—	—	25	763,641	3.9	120.82
TOTAL	2,726	11	61,666	4.0	22.62	132	3,790,095	4.8	139.03
CALGARY	623,133	3,451	14,543,582	5.5	23.33	29,640	107,930,816	4.7	17.32
CAMROSE	12,809	32	240,727	2.4	18.79	291	1,497,808	2.2	11.69
DRUMHELLER	6,508	16	134,354	2.4	20.64	228	2,362,876	3.5	36.30
EDMONTON	551,314	1,981	45,291,053	3.5	82.15	18,164	122,194,450	3.2	22.16
FORT MCMURRAY	33,576	231	1,488,446	6.8	44.33	1,531	8,380,291	4.5	24.95
GRANDE PRAIRIE	24,263	146	647,934	6.0	26.70	1,600	7,085,350	6.5	29.20
LETHBRIDGE	56,500	368	1,685,236	6.5	29.82	3,010	15,129,100	5.3	26.77
LLOYDMINSTER	9,029	37	375,675	4.0	41.60	217	2,829,853	2.4	31.34
MEDICINE HAT	40,380	291	844,411	7.2	20.91	2,841	8,936,221	7.0	22.13
RED DEER	48,562	260	811,117	5.3	16.70	1,830	6,331,451	3.7	13.03
ST. ALBERT	32,982	226	695,842	6.8	21.09	1,384	5,468,599	4.1	16.58
WETASKIWIN	9,896	27	1,330,852	2.7	134.48	240	6,688,316	2.4	67.58

SECTION THREE
GLOSSARY OF TERMINOLOGY

GLOSSARY OF TERMINOLOGY

ACT OR OMISSION — The human element by which someone has done something (an act) or failed to do something (an omission). The act or omission indicates whether the fire was deliberate, neglectful or accidental.

Incendiary or Set Fires — includes arson, suspected incendiarism, riot, mischief, or vandalism.

Misuse of Source of Ignition — includes disposal of smokers' material, thawing, inadequate control of an open fire, children playing, welding or cutting too close to combustible material, or torch too close to combustible material.

Misuse of Material Ignited — includes fuel spilled accidentally, improper fuelling technique, cleaning or washing parts, improper container, combustible placed too close to heat, and improper storage.

Mechanical and Electrical Failure or Malfunction — includes part failure, automatic or manual control failure, electrical short circuit, lack of maintenance, and part worn out.

Construction, Design or Installation Deficiency — includes construction or design deficiency, installation too close to a combustible, other installation deficiency and overfusing.

Misuse of Equipment — includes any misuse of equipment or tools.

Human Failing — includes person asleep, temporary loss of judgement, physical disability, panic, influence of alcohol or drugs.

AREA OF ORIGIN — the area of a building or vehicle where the fire started.

Means of Egress — the area allowing an individual transit or a way of going out. Includes hallway, stairway, escalator, lobby and elevator.

Assembly, Sales Area — areas where groups of people gather. Includes theatre, arena, lounge, living room, sales or show room, library, museum and sports facility.

Function Area — the area where a mode of action or activity is undertaken. Includes sleeping area, dining area, bar, washroom, office, laboratory, printing and photographic reproduction, kitchen, laundry room, operating room, performance area and manufacturing area.

Storage Area — the area inside a building where items are stored. Includes product storage area, closet, equipment area, records storage area, shipping and receiving area, trash and rubbish area, vehicle garage and agricultural product storage.

Service Facilities — conveyance items such as dumbwaiters, service shafts, laundry and garbage chutes, heating and cooking ducts, and chimneys or gas vents.

Structural Area — includes crawl space, balcony, ceiling and floor assembly, ceiling and roof assembly, wall assembly, exterior wall or exterior roof, awning or canopy.

Vehicle Area — includes engine area, fuel area, control area, passenger area, and cargo area.

Outside Area — includes open area such as lawn, field or park, court, patio, parking area, outdoor storage area, and trash or rubbish area.

FUEL OR ENERGY — is the fuel associated with the source of ignition. Includes coal, wood, fuel oil, gasoline, natural gas, propane, smokers' material, electricity, or lightning.

MATERIAL FIRST IGNITED — the actual material that ignites and creates the fire condition.

Structural Components, Finish Materials — includes roof covering, wall covering, floor covering, structural component, ceiling covering, and insulation.

Furniture, Furnishings — includes furniture, ironing board, mattress, bedding, drapery and broom, mop or brush.

Clothing, Textiles — includes clothing, fabric, fur and tarpaulin.

Wood, Paper Products — includes wood, wood shavings, paper, cardboard and paper stock.

Flammable Liquids — includes gasoline, fuel oil, flammable liquids, paint, varnish, tar, asphalt, polish and wax.

Flammable Gases — includes natural gas, propane, anaesthetic gas, acetylene and hydrogen.

Chemicals — includes starch, flour, cellulose nitrate, plastic, oxidizing material, magnesium and alloys, titanium, natural or synthetic rubber, and ammonium nitrate.

Agricultural, Forestry Products — includes fibres, grains, hay, trees, felled timber, grass, fertilizer and manure.

Miscellaneous — includes coal, garbage, trash, oily rags and artificial trees.

PROPERTY CLASSIFICATION — the principal use or occupancy of the building.

Assembly — property for the gathering of persons for civic, political, travel, religious, social, educational or recreational purposes. Includes theatres, amusement or recreation places, schools, colleges, universities, churches, social or sport clubs, libraries and museums, eating establishments and passenger terminals.

Institutional — property for medical treatment, or care of persons suffering from illness, disease or infirmity, for the care of infants, convalescents or aged persons and for penal or corrective purposes. Includes prisons, jails, reformatories, homes for the aged, children's hospitals, hospitals, and clinics.

Residential — property in which sleeping accommodation is provided for normal residential purposes. Includes one and two family residences, apartments, rooming or boarding houses, hotels, motels, dormitories and mobile homes.

Business and Personal Service — property for conducting business. Includes offices, personal services such as hair-dressing, and data processing or storage facilities.

Mercantile — property used for the display and sale of merchandise. Includes food and beverage sales, textile and clothing sales, furniture and appliance sales, books and specialty sales, recreational and hobby supply sales, repair shops, laundries, vehicle and boat sales and department or variety stores.

Industrial Manufacturing Properties — property where raw materials are transformed into new products and where the component parts of manufactured products are assembled. Includes chemical, petroleum, paint and plastic manufacturing; wood, furniture, and paper manufacturing; metal product and electrical equipment manufacturing; food processing; beverage, tobacco, soap and margarine manufacturing; textile manufacturing; footwear and wearing apparel manufacturing; and vehicle and related equipment manufacturing.

Industrial Storage Properties — property used primarily for the storage or sheltering of goods, merchandise, products, vehicles, or animals. Includes agricultural product storage; textile, fibre and clothing storage; processed food and beverage storage; flammable liquids, gas and petroleum storage; wood, furniture, and paper products storage; chemical, paint and plastic storage; metal product, machinery, and electrical appliance storage; and vehicle storage.

Special — mainly outdoor property and transport equipment. Includes outdoor property, piers, buildings under construction or demolition, watercraft, rail transport vehicles, ground transport vehicles, aircraft, and other special equipment.

Miscellaneous — includes laboratories, farm facilities, outbuildings, utilities, glass and pottery manufacturing, mining, communications, and nucleonics.

SOURCE OF IGNITION — the actual equipment, device or object which brings about ignition.

Heating Equipment — includes central heating unit, service water heater, space heater, fireplace, chimney, flue pipe and steam or hot water pipe.

Cooking Equipment — includes stove, range, food warming appliance, deep fat fryer, broiler and portable cooking unit.

Smoker's Material — cigarettes, matches and lighters used for smokers' materials, pipes and cigars.

Electrical Distribution Equipment — includes dryer, air conditioning equipment, pressing iron, internal combustion engine, tarpot and incinerator.

Open Flames — includes matches and lighters not associated with smokers' material, candles, cutting torches, welding equipment and hot ashes.

Exposure — includes exposure from an attached or detached structure, lumber yard, open fire, forest, grass and brush.

Miscellaneous — includes heat treatment equipment, industrial oven, printing equipment, fireworks, conveyors, commercial and industrial machinery, and chemical reactions.

DIRECTORY

HEAD OFFICE:

Room 701
10808 — 99 Avenue
Edmonton, Alberta
T5K 0G2
Phone: 427-8392

REGIONAL OFFICES AT:**CALGARY:**

Deerfoot Junction
Tower 3
1212 — 31 Avenue, N.E.
T2E 7S8
Phone: 230-4710

PEACE RIVER:

Bag 900, Box 24
9621 — 96 Avenue
T0H 2X0
Phone: 624-6163

EDMONTON:

Room 303
Princeton Place
10339 — 124 Street
T5N 3W1
Phone: 427-4853

RED DEER:

4920 — 51 Street
Box 5002
T4N 5Y5
Phone: 343-5157

LETHBRIDGE:

Room 360
Provincial Building
200 — 5 Avenue S.
T1J 4C7
Phone: 329-5483

ST. PAUL:

Room 407
Provincial Building
5025 — 49 Avenue
T0A 3A0
Phone: 645-6349

**ALBERTA FIRE
TRAINING
SCHOOL:**

Drawer 388
VERMILION, Alberta
T0B 4M0
Phone: 853-5800

VERMILION:

Drawer 388
T0B 4M0
Phone: 853-2811

POOR

QUALITY

ORIGINAL